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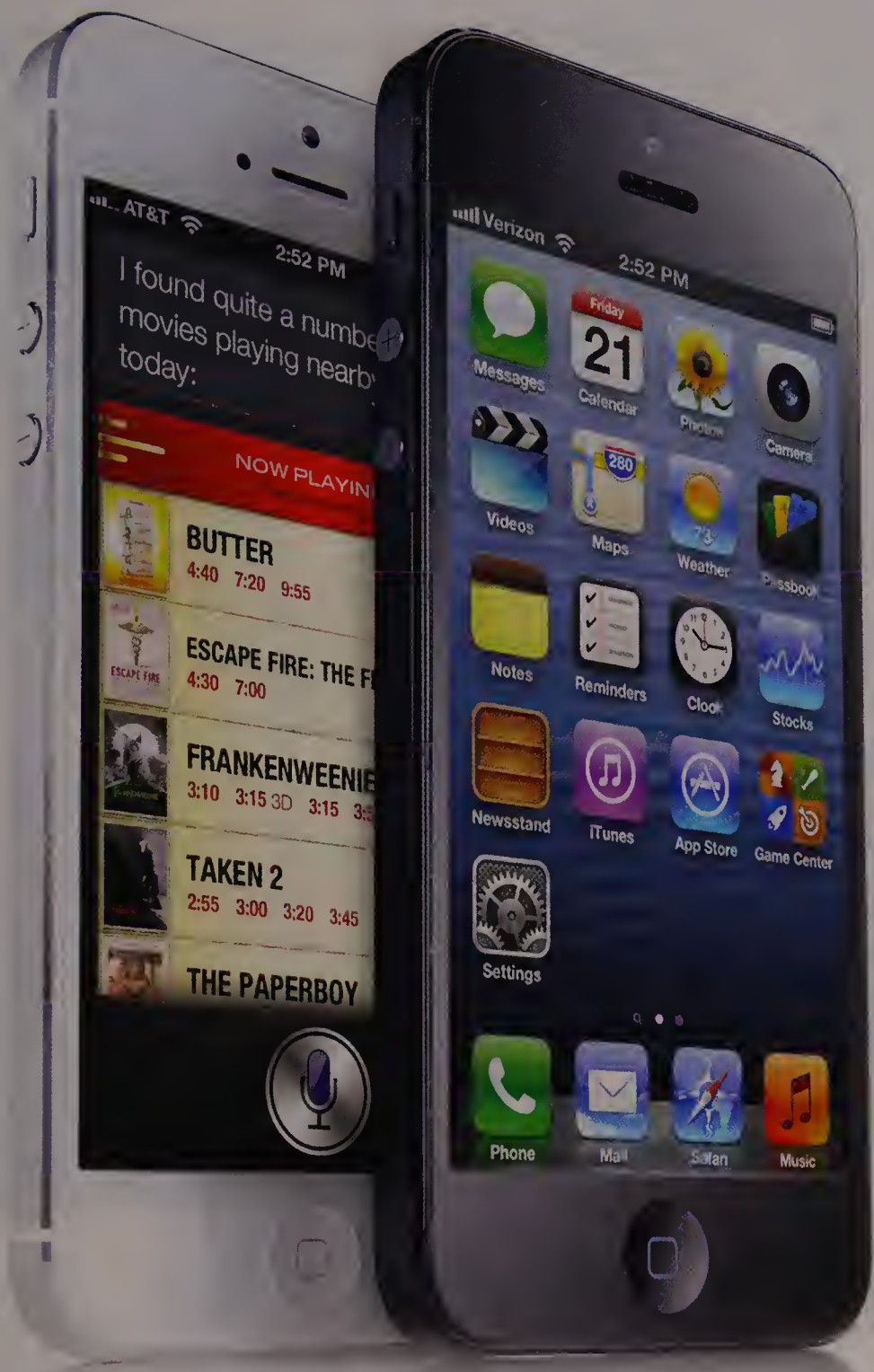
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PHOTOGRAPH BY
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iOS 6 Quirks

Though the new operating system is a fine upgrade, it has a few oddities (macworld.com/a/2011474).

We also recommend:

Podcast: A look at iCloud backups (macworld.com/a/2010943).

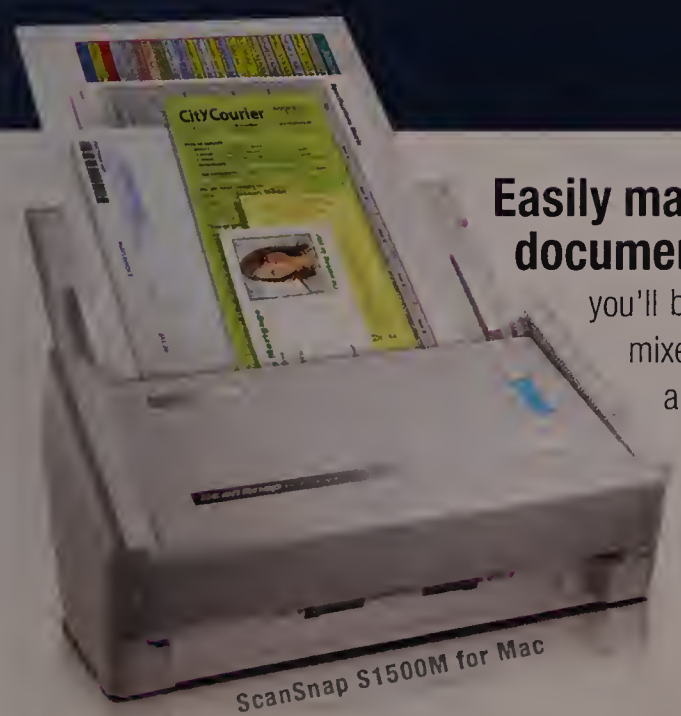
Podcast: iPhone 5 review (macworld.com/a/2010641).

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The Jobs Legacy

A year after his death, his influence can still be seen.

When Steve Jobs passed away in 2011, many of us wondered how Apple would survive without him. In the year since then, new Apple boss Tim Cook has been constantly compared to his predecessor. Those comparisons have not always been flattering: "Jobs would never have allowed that" is something of a cliche.

Worse, that kind of statement betrays a misunderstanding of how Apple operates. Jobs's most lasting accomplishment is preparing Apple to thrive without him.



On People and Philosophy

Over the last decade, Jobs spent a lot of time and energy assembling an executive team that could to a large degree function without him. People like Tim Cook, Jonathan Ive, Phil Schiller, and others, each bring elements to the team that Jobs himself could not.

But Jobs's record is hardly perfect. Remember the strange case of Mark Papermaster? In 2008, the former IBM exec was brought in to head up Apple's device hardware engineering division. That led to months of strife as IBM tried to block his appointment via lawsuit. But even after all the legal issues were resolved, Papermaster ended up serving just 18 months, leaving after the iPhone 4 antenna controversy. While many assumed his departure was the result of that brouhaha, a *Wall Street Journal* report suggested that it had more to do with a "broader cultural incompatibility."

That culture can be a hard thing to fathom, especially from outside the company. But both Jobs and Cook have touted it in their public appearances.

For Jobs, it was defined by the intersection of technology and liberal arts: two seemingly disparate disciplines that, when combined, could yield a result "that makes our heart sing." In other words, it's not purely about the specs of a device, but about what products can do to (in another of his favorite phrases) "surprise and delight" us.

> "[Steve taught us] if you've done something great or terrible ... forget it and go on and create the next thing."—Tim Cook

Jobs was notorious for his pickiness about design and materials, which to him helped define Apple products. It's no surprise that he brought the same level of thought and purposefulness to selecting people to help lead the company.

"Never Ask What He Would Do"

Not that Apple dogmatically follows the example of its late CEO—and that may have been his doing, too. According to Cook, Jobs once told him that Disney employees asked themselves what the company's late founder, Walt Disney, would do in certain situations. "And he looked at me with those intense eyes that only he had, and he told me to never do that, to never ask what he would do," Cook said at the D Conference earlier this year. "Just do what's right."

Many of the decisions Jobs made in the latter half of the 2000s—including some that predate his cancer diagnosis in 2003—seem now to have been attempts to position the company for long-term success. From stripping *Computer* from the company's name to pursuing new businesses outside of Apple's traditional comfort zone, Jobs spent much of his second stint looking toward the future. And it's a quality he seemingly impressed upon his successors.

"Another thing Steve taught us all was not to focus on the past. Be future focused," Cook told the D attendees. "If you've done something great or terrible in the past, forget it and go on and create the next thing."

Apple under Jobs pushed for a new connectivity standard, perhaps ahead of its time, with Thunderbolt; Apple under Cook is making a similar push with Lightning on the iPhone 5. Apple under Jobs obsessed over build quality and minor details; Apple after him seems no different: The iPhone 5 has been hailed as the loveliest iPhone to date.

The Road Without Him

Apple's future product releases will bear Jobs's fingerprints for years to come—because he reshaped the company itself.

It's clear that today's Apple—from the executive team on down—was molded to Jobs's vision. The first time he left Apple, the company changed radically, to its detriment. That didn't happen this time around. Apple without Jobs is an awful lot like the company with him.

As Tim Cook, remembering Jobs on the first anniversary of his death, wrote on Apple's website: "One of the greatest gifts Steve gave to the world is Apple."

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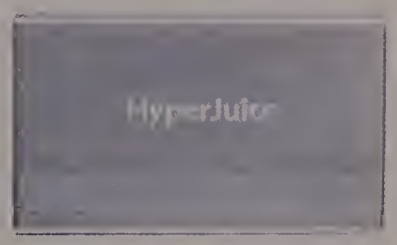


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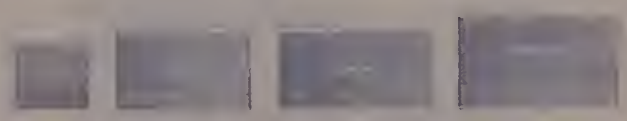


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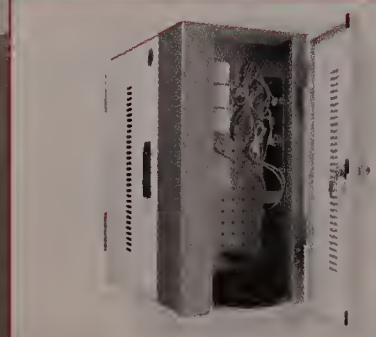
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Home for the Holidays

Happy holidays, *Macworldians*. We couldn't resist checking in on the latest reader reactions. Whether you're mapping problems and improvements in iOS 6's Maps app, snapping an Apple holiday portrait, or wishing for AirPort Express improvements, we want your feedback.

MAPPED OUT

From the evidence provided so far, by Apple and *Macworld*'s own articles about iOS 6, it appears that the upcoming system's new Maps app is Apple's first example of bimbo software: Software that looks darn pretty and seductive, but does a great deal less than its iOS 5 predecessor.



Of particular concern to me is the lack of effective, efficient Maps 6 support for local transit times, routes, and connections, walking routes and Google's Street View. I use those features of Maps 5 a lot, as well as the car routes.

Peter Morgan, via email

I live in a major suburb north of Dallas. The Maps app's directions thought a certain section of freeway was incomplete, even though it has been finished for over 10 years. The next morning I was going to show my wife, only to discover it had corrected itself overnight and was now giving accurate directions. So it does appear Apple is working to fix the data.

patriotusa, via Macworld.com

I am very pleased with how Maps works here in the Montreal area so far. Maps was able to guide me to my cottage deep in the Laurentian using my usual shorter route and from there to a scout camping ground even deeper in the woods. Maps is a great addition to my iPhone 4S. My guess is that Maps is as good as the data provider is in different countries and areas.

vgiguere, via Macworld.com

Google Maps didn't drop perfectly formed out of the heavens. It was very imperfect to begin with, and it became better because people reported problems. But if you want to curse the darkness rather than light a lamp, that's your choice. I think Apple has the basis of a really excellent mapping solution, and I will be contributing as much as I can to make it better.

kenmcall, via Macworld.com

[Learn how to report issues in Maps: macworld.com/8018.]

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DUAL-BAND WOES

I bought the new Airport Express primarily to take advantage of the simultaneous dual band (2.4GHz and 5GHz) that you report on in the September issue. What I expected and what I got were two different things because of a restriction that Apple does not mention.

Yes, you can get simultaneous dual band signals *if* you use the new Airport Express as a base station and create a network with it. If you want to use it to extend your current network, as I did, you *must* choose one or the other of those two bands. Since iPhones can use only the 2.4GHz frequency, you can't use the faster 5GHz frequency if you want all your IOS devices and Macs to have Wi-Fi.

Jay Kappmeier, via email

THROUGH THE LENS: AN APPLE UNDER EVERY TREE

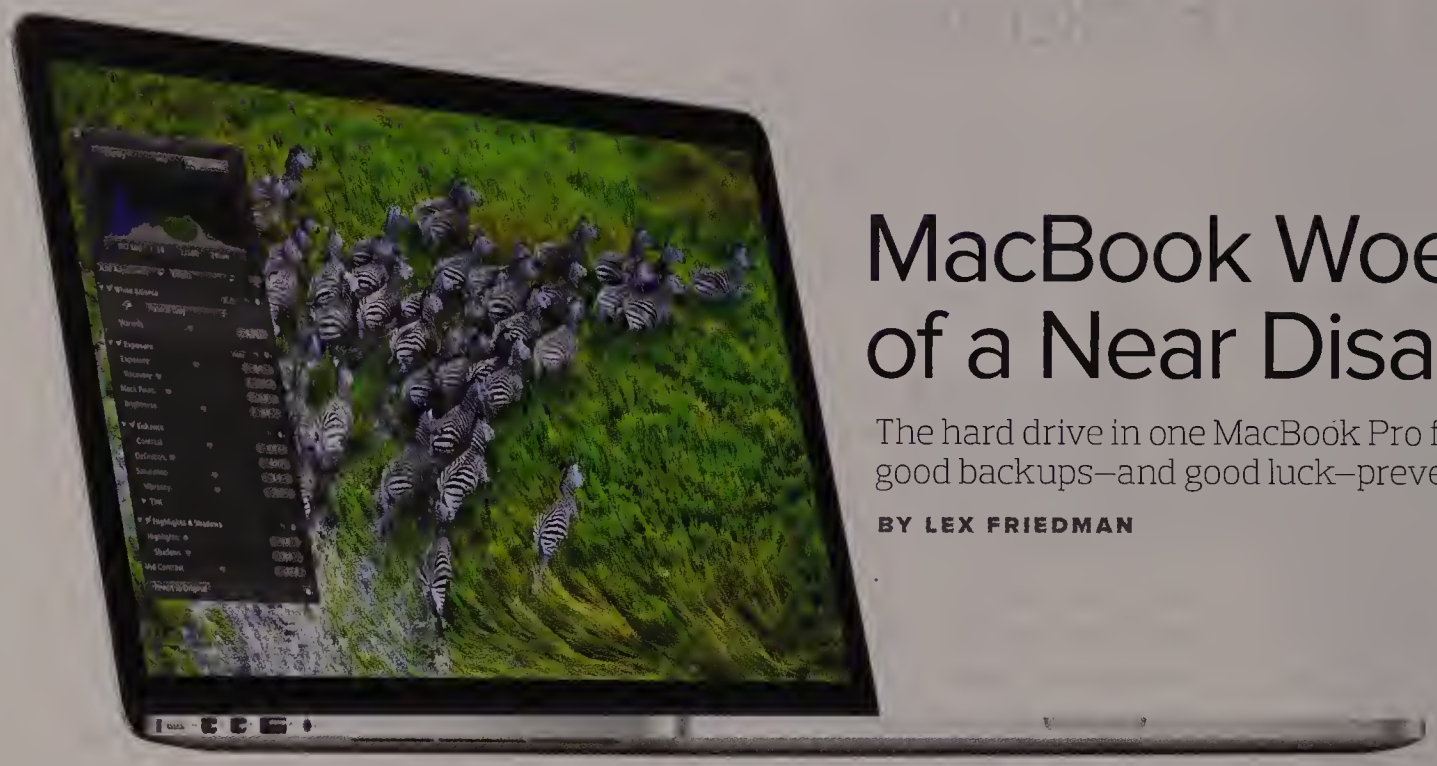
For Christmas, we each bought a new MacBook Air. While we still had the old ones, we decided to take pictures. Then we decided to get together all our Apple products for pictures. The hardest part: keeping all the screens active for the photo!
—Morgan Johnson and Steven Alan Black

Have a great Apple-centric photo? Send it to letters@macworld.com, and we may feature it in a future issue.



MacUser

News and Analysis About Macs, OS X, and Apple



MacBook Woe: A Tale of a Near Disaster

The hard drive in one MacBook Pro failed after a spill, but good backups—and good luck—prevented a catastrophe.

BY LEX FRIEDMAN

This is the story of one man's MacBook Pro, its failed hard drive, and the aftermath.

Mac disasters can happen to anyone; it's just a matter of time. But my experience could help you to be better prepared for when things go awry.

The Incident

I was on a Virgin America flight, using the Wi-Fi to do some work. I had the aisle seat; in the window seat, 13F, was a woman whose clumsiness I would become all too familiar with. Thanks to the Wi-Fi (and my lack of discretion), I live-tweeted some of 13F's shenanigans—when she dropped mayo on her iPad, when she bumped her head on her tray table, and when she spilled water on my MacBook Pro.

In truth, she didn't spill much. Maybe just half a shot glass's worth hit my laptop's screen and keyboard as she maneuvered back into her seat. (I'd stood up to let her in, folded up my tray, and deposited my laptop on my seat.)

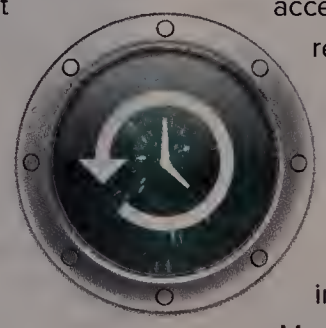
She apologized. The Mac seemed fine, so I foolishly kept using it. An hour later, the laptop stalled as I tried to save a file. Then it froze. I shut it down by holding the power button, waited a moment, and restarted it. That was foolish, too.

It failed to boot up, simply shutting down after hanging on the startup screen for half a minute. My Twitter followers suggested that I take down 13F's contact information for insurance purposes, or a small-claims filing, or in dealings with the airline. Although 13F declined to provide her name, a flight attendant who had witnessed the incident said that she would recollect it if I contacted Virgin, should my laptop's problems not have a simple solution.

The lesson: Even if your Mac (or other device) seems fine after a liquid spill, shut it down immediately. Water itself won't necessarily damage the innards, but water interfering with the flow of electricity through circuit boards will.

The Attempted Fix

Back home, I let the MacBook Pro dry out, presuming that it was a small amount of water, and that drying completely might cure what ailed it. How wrong I was. When I turned the laptop on again, it exhibited the same problems.



I have a fairly robust backup plan: I use a combination of Time Machine, SuperDuper, CrashPlan, and Dropbox. But I'd been traveling all week, with my Time Machine and SuperDuper backups at home. My main backups were a week out of date. My CrashPlan online backups would have been more current, but accessing them would have required making lengthy downloads from the Web or requesting (at additional expense) a drive with all my data from CrashPlan.

On top of that, I had installed a new version of Mac OS on my laptop during my travels. That wouldn't have made restoring from an out-of-date bootable backup like SuperDuper's impossible, but that would have made it less than ideal.

The lesson: Good backups mean never having to panic. If you aren't backing up regularly, stop reading this article for a bit. Sign up for CrashPlan or a similar service,

PHOTOGRAPH COURTESY OF APPLE

start Time Machine, or take other steps to ensure that when disaster strikes, you needn't fear crushing data loss.

The Diagnosis

My next step was to coax data off the drive. First I held the <Option> key as my laptop started up, and I chose to start in Lion Recovery Mode. (Lion Recovery uses a partition of the main drive, but in my case it worked.) I ran Disk Utility, asking it to repair my main drive. Disk Utility indicated that the drive was beyond repair. Uh-oh.

Two Twitter friends from The Unofficial Apple Weblog (Mike T. Rose and Richard Gaywood) were online at the time. At their suggestion, I paid $100 for DiskWarrior (♦♦♦♦♦). I had to run it on my Mac mini, and to boot the laptop in Target Disk Mode (by holding down the *T* key during startup). That mode, which works on Macs with FireWire or Thunderbolt ports, makes a Mac's internal drive accessible as an external drive to another computer.

The MacBook Pro has a FireWire 800 port, whereas the Mac mini has a FireWire 400 port. So I had to go to the Apple Store to buy the right cable. At the same time, I made a Genius Bar appointment.

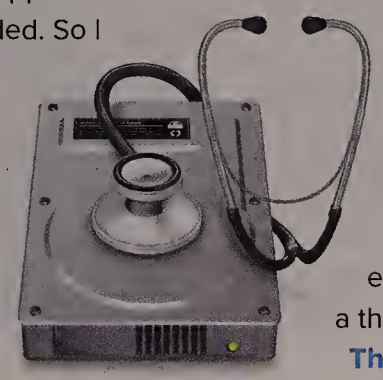
Spoiler alert: The Apple Store no longer carries FireWire cables. So I sauntered to Radio Shack and got one for $35. (MonoPrice sells similar cables for about $5, but I didn't want to wait for shipping.) At my appointment, the Genius confirmed what I feared: The drive had permanent physical damage. No replacements were in stock; he could order a new one for $180 installed.

I took the laptop and cable home, and hooked the MacBook Pro to the Mac mini. DiskWarrior saw the damaged drive, but reported that it could do nothing. Updating my Twitter friends with the sad news, I checked my backups to verify what I'd be losing—chiefly, a couple days' worth of work. But that period of reflection proved useful: While I waited, the Mac mini eventually mounted the MacBook Pro's drive, and DiskWarrior said it could build a new directory for the drive to repair it. Whooping in delight, I directed it to do so.

The lesson: Know your devices' ports. I could have started restoration much earlier if I had already owned the FireWire cable. And DiskWarrior is amazing.

The Data Recovery

I debated attempting to clone the drive. My TUAW friends and *Macworld* senior editor Dan Frakes counseled against it: Copying all that data would require accessing every part of the drive, risking further damage. The saner approach was to copy only the data I needed. So I copied the stuff I cared about the most first, putting it on a USB drive connected to the Mac mini. (And indeed, during the copying of some less-critical files, the laptop's drive failed again.)



As for the rest of my data, I elected to repopulate my new drive (more on that in a bit) piecemeal, from several backups. I restored big swaths of files—including my user Library folder, Pictures, Movies, and Music—from the SuperDuper backup. Then I compared those sets against my CrashPlan backup, and filled in some missing files. That was painstaking work, but I'm glad I did it.

I found that one album I had downloaded minutes before heading to the airport wasn't backed up anywhere. Both Amazon and iTunes let you redownload purchased music; I used iTunes Match to redownload the tracks. Not a big deal.

The lesson: When you're restoring files or trying to salvage data, start with the most important or recent items first. I'm delighted that I copied the data not backed up elsewhere from my dying drive before it went completely kaput.

The Replacement

At the Apple Store, I had agreed with the Genius's plan to order a near-identical replacement for my failed 500GB drive. But I wondered whether I'd made the right choice, since solid-state drives are faster and theoretically more reliable.

I called the Apple Store and canceled my order. Instead I bought a 240GB Mercury Electra 6G SSD from OWC. I installed the drive in about 20 minutes, and then installed Lion by running the installer from my Mac mini with the MacBook Pro again in Target Disk Mode. I then copied data from the Mac mini and from my external USB drive onto the laptop, starting with the apps I needed.

The SSD is a delight. My laptop starts up and is ready in about 15 seconds. Apps launch instantly. It's almost enough to get me to write 13F a thank-you note. Almost.

The lesson: You can take the sting out of a hard-drive failure by replacing the old drive with a better one. And installing a replacement drive isn't nearly as difficult as you might fear.

The Wrap-Up

All told, the results could have been a lot worse. Setting up a backup regimen can be a hassle, but it's so worth the time and effort. I was especially pleased with Dropbox sync for desktop Mac apps. BBEdit opened on my new drive looking exactly as I'd left it, with all the same open documents. TextExpander and 1Password both noted that I had data available on Dropbox and synced my setups, too.

But I could have done some things differently. First, I need to avoid installing major software while traveling. Second, I should keep my in-progress Mac-based work on Dropbox. Had I done so, I could have more easily restored in a single swoop from my SuperDuper backup, using Dropbox for the differences.

And finally, although I blame 13F for spilling the water on my laptop, I could have prevented the damage. I could have closed the machine when I stood up, or held it as I did so. Next time, I will.

All told, the results could have been a lot worse. Setting up a backup regimen can be a hassle, but it's so worth the time and effort.

Steve Jobs's Seven Key Decisions

BY BENJ EDWARDS

When Steve Jobs officially returned to Apple 15 years ago, it marked a moment of rebirth. Within eight months, he assumed the mantle of Interim CEO and executed a stark and keen strategy to save Apple from oblivion. One year after his passing, it's a good time to look back at seven key moves Jobs made during his early days as iCEO.



PHOTOGRAPH BY FEATUREFLASH / SHUTTERSTOCK.COM

Taking the Reins

After the purchase of NeXT in late 1996, Apple CEO Gil Amelio brought Jobs in as a special advisor in January 1997. Jobs could have been content to simply provide advice and stay out of the way. Instead he quickly convinced Apple's board of directors to oust Amelio. Before long he nominated himself as a potential replacement, and the board agreed.

Trimming the Fat

Before Jobs's return, Apple made desktops, laptops, servers, printers, cameras, and other items, few of which made a profit. Ultimately he axed more than 70 percent of Apple's products. The cuts led to the layoffs of 3000 employees during his first year, but they let Apple focus on creating a handful of good products.

Cleaning House

Within a few weeks Jobs forced the resignation of most of Apple's board members, installing close friends such as

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Oracle CEO Larry Ellison and former Apple VP of marketing Bill Campbell in their place. He also implemented companywide marketing, sales, manufacturing, and finance departments, after clearing away the product-centric departments that feuded and competed for resources.

Plugging the Leaks

Under Gil Amelio, intentional press leaks from employees—attempts to embarrass the CEO into changing policies—occurred often. That stopped under Jobs, who instituted a ban on employees' talking to the press. The policy had the side effect of creating the veil of secrecy and suspense that would regularly accompany Apple product announcements.

Burying the Hatchet

During his first tenure at Apple, Jobs had been largely responsible for portraying the battle over the computer marketplace as a conflict between Apple and IBM. By extension, Apple also opposed Microsoft, which provided the IBM PC's operating system. The animosity continued well past 1985, when Jobs resigned from Apple. Over time, the Mac's market share shrank to single digits, and by 1996 Jobs had been removed from the situation long enough to admit that the desktop PC wars were over: Microsoft had won.

In exchange for patent cross-licensing, Microsoft vowed to develop new versions of Office and Internet Explorer for the Mac for at least five years, and to buy $150 million in Apple stock. In return, Apple agreed to make IE the default browser for Mac OS for five years. This deal, which Jobs announced at Boston Macworld 1997, was part of a public appeal to Mac fans to bury the hatchet and move on.

Killing the Clones

In 1994, Apple began licensing Mac OS to select vendors, who paid Apple $80 per machine. This wasn't a great idea: The low-cost clones cannibalized Apple's most profitable product line, and failed to expand the footprint of the Mac platform. So Jobs declined to license Mac OS 8 to clone vendors upon its release in 1997, effectively ending the program (though UMAX managed to license OS 8 until 1998). He believed in controlling the user experience, from hardware to software, and that goal could not be achieved if the hardware end was out of Apple's hands.

Trusting Jonathan Ive

When Jobs returned to Apple, Jonathan Ive was already head of the design team. He was thinking about quitting, in fact, until one of Jobs's companywide presentations convinced him to stay. They soon became friends, as they found that their design philosophies shared key elements. The pair (with the assistance of the entire Apple design staff, of course) would go on to create some of the most famous consumer electronics designs ever made.



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Hackers Dig Up Easter Eggs in Mac SE ROM

BY ELIZABETH FISH



Have you ever passed a discarded computer sitting by the curb and thought about what wonders it might hold?

The folks at hackerspace NYC Resistor (www.nycresistor.com) saw a Macintosh SE at the side of the road, and took it. The vintage Mac still booted, but held no media—on the surface. Performing some digital archaeology, one member of the team, Adam Mayer, recovered grainy photos—black-and-white, 536-pixel-wide images, dated 1986—by examining the Mac SE ROM and then rigorously testing the noncode, nonaudio data held within.

The photos are actually a well-documented Easter egg, showing the Mac Plus crew. On any SE, you can see them by entering a few commands (macworld.com/7999). The real goal for NYC Resistor was to disassemble the ROM to figure out *how* the images got inside. At this writing, although they did work out where the developers found a gap on the ROM to hide the pictures, they still had yet to analyze the code further. They think that an audio file might be lurking in one of the ROM regions.

Even though these photos were placed intentionally, this episode proves that you need to be thorough in wiping an old computer: Someone might try to make it their next archaeology project.

Macs: Current Lineup

PRODUCT	SPECS	RATING	PRICE	DISPLAY	SPEEDMARK 7[1]	FIND CODE[2]
DESKTOP						
iMac	Intel Core i5/2.5GHz (quad-core)	4	$1199	21.5 inches	211	7197
	Intel Core i5/2.7GHz (quad-core)	4	$1499	21.5 inches	229	7198
	Intel Core i5/2.7GHz (quad-core)	4	$1699	27 inches	225	7199
	Intel Core i5/3.1GHz (quad-core)	4	$1999	27 inches	241	7200
Mac Mini	Intel Core i5/2.3GHz	4	$599	Not included	132	7429
	Intel Core i5/2.5GHz	4	$799	Not included	161	7430
Mac Pro	Intel Xeon/3.2GHz (quad-core)	3½	$2499	Not included	254	7863
	Intel Xeon/2.4GHz (12-core)	3½	$3799	Not included	259	7864
PORTABLE						
MacBook Air	Intel Core i5/1.7GHz, 64GB	4½	$999	11 inches	186	7865
	Intel Core i5/1.7GHz, 128GB	5	$1099	11 inches	195	7866
	Intel Core i5/1.8GHz, 128GB	4½	$1199	13 inches	201	7867
	Intel Core i5/1.8GHz, 256GB	4½	$1499	13 inches	206	7868
MacBook Pro	Intel Core i5/2.5GHz (dual-core)	3½	$1199	13 inches	161	7869
	Intel Core I7/2.9GHz (dual-core)	4	$1499	13 inches	189	7870
	Intel Core i7/2.3GHz (quad-core)	4	$1799	15 inches	221	7871
	Intel Core i7/2.6GHz (quad-core)	4½	$2199	15 inches	239	7872
	Intel Core i7/2.3GHz (quad-core)[3]	4½	$2199	15 inches	319	7873
	Intel Core I7/2.6GHz (quad-core)[3]	4½	$2799	15 inches	330	7874

n/a = not available. [1] Speedmark 7 is Macworld Lab's standard test tool for benchmarking systems running Mac OS X 10.7 (Lion). For more information on Speedmark testing, go to macworld.com/7487. [2] In a browser's address field, typing in a find code after macworld.com/ takes you to a product's review or overview. [3] Equipped with a Retina display.

Hard-Drive Shipments Rebound



A year after a flood in Thailand took out a large portion of hard-drive production, the industry has fully recovered, with shipments to the computer market expected to hit a record level this year.

Drive shipments in 2012 for the overall computer market are forecast to reach 524 million drives, up 4.3 percent from 502.5 million units last year, according to market research firm IHS iSuppli.

Hard-drive prices, however, will remain high, and prices are not expected to fall to preflood levels until 2014, IHS stated in a report earlier this year. The average price held steady at $66 in the first quarter of 2012 and is expected to decline only marginally, to about $65, in the second quarter.—LUCAS MEARIAN

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Hot Stuff

What We're Raving About This Month



Zorro Macsk

Whether Apple will ever create a touchscreen iMac remains to be seen; but if you can't wait, you can add touchscreen capabilities by using LumiaView's Zorro Macsk. The $199 device fits over the front of the 21.5-inch iMac and plugs into USB. With the Zorro Macsk on your machine, you can use familiar finger gestures, such as pinching to zoom and swiping left or right to turn pages. It especially comes in handy with iOS games ported to the Mac—games that were designed with touch interfaces in mind. LumiaView offers the Zorro Macsk in black, blue, green, pink, sliver, and white. The device requires a 21.5-inch iMac with a 16:9 display (www.lumiaview.com).—ROMAN LOYOLA



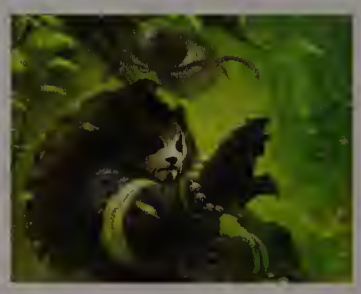
SharePort Go DIR-506L

D-Link's new portable device can serve as a Wi-Fi hotspot in a hotel room that offers only a wired Internet connection. Once you hook it up, the $130 SharePort Go DIR-506L lets you plug in USB storage devices that you can then access over the network. The SharePort Go can also stream media to iOS devices and Macs, and it contains a rechargeable battery that charges over USB, so you don't have to bring along a power adapter. You can even charge an iOS device simply by connecting it to the SharePort Go (dlink.com).—ROMAN LOYOLA

Magic Mind 1.0



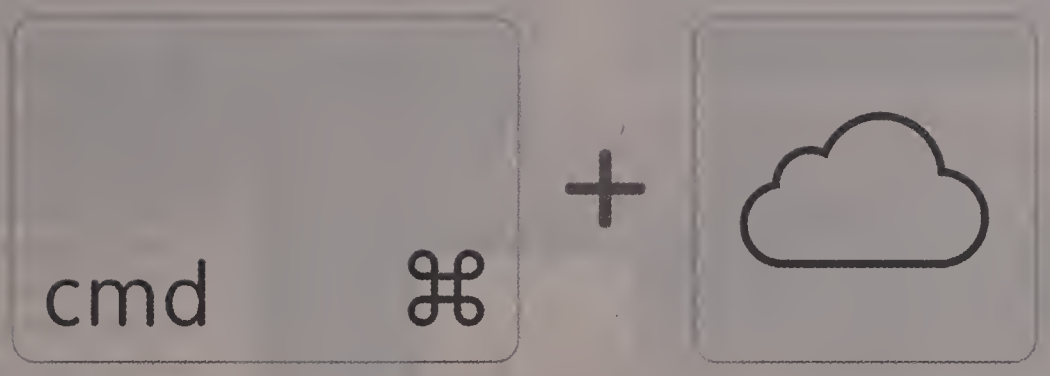
If you're having difficulty unwinding, try Magic Mind. This $7 Mac app plays sounds designed for "personalized relaxation and sleep assistance." It has 40 "brainwave entrainment" sessions for inducing sleep, 12 calming melodies, and 28 soothing background sounds. You can mix sounds and adjust volumes to your preference (rcs-software.com).—ROMAN LOYOLA



Mists of Pandaria

The new expansion to Blizzard's World of Warcraft MMORPG brings a monk class with martial-arts-inspired abilities, plus a panda race called the Pandaren. Blizzard has also added a more-casual scenario system, player-run farming, new factions with a redone daily-quest system, and a challenge mode for dungeons to help five-man groups push their skills. The expansion also offers a fairly complete Pokemon-esque pet-battle system (blizzard.com).—DAVID DAW

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AUDIO EDITOR

Fission 2.0

★★★★½; $32; Rogue Amoeba; www.rogueamoeba.com/fission/



For years, Rogue Amoeba's Fission has been my go-to audio editor whenever I need to trim songs, splice tracks, edit voice recordings, fade tracks, or make ringtones.

Fission 2 has been a long time coming, but it was worth the wait. It offers an attractive new interface, it supports FLAC files, and it can convert files—alone or in batches—to and from AAC, MP3, AIFF, WAV, FLAC, and Apple Lossless.

As before, Fission 2 edits audio files in their original format; some editors first convert files to, for instance, AIFF, and later convert them back. Fission's approach saves time and makes editing easier.

The app now lets you open multiple windows; copying and pasting audio across files is no longer a hassle. Fission 2 supports enhanced (chapterized) AAC files, too, which helps to simplify podcast work.

Not all of the features are intuitive. For example, "split points" mark locations where you've split or pasted audio. But if you forget to remove split points, Fission saves your audio in multiple files.

I'd like the capability to have two windows show their contents at the same scale so that, say, 10 seconds' worth of content is the same size in one window as in another. (Rogue Amoeba is considering adding this feature in a later version.) And when you edit a file containing album art, the edited file shows a Fission icon, rather than the album art, in the Finder. The developer says it will fix this bug soon.

Fission 2 is probably the only app you need to work with audio files. It does the job easily and quickly.—KIRK McELHEARN

UTILITY SOFTWARE

Bark 1.0.1

★★★★½; free; Pandamonia; barkplug.in/index.html

Before Mountain Lion, Mac owners often used the free, third-party Growl for app alerts. Now, Growl is a $2 app in the Mac App Store, and Mountain Lion's Notification Center duplicates most of its functionality. However, many apps support Growl but not Notification Center. Enter Bark, which pipes Growl alerts to Notification Center so that they appear there. It's free, and it works just the way I want it to.

After installing Bark, you launch Growl, click the Displays tab, and choose Bark as the Default Style for notifications. From then on, the plug-in sends Growl alerts to Notification Center, properly associating each alert with the notifying app.



My only complaint is a minor one. Both Growl and Notification Center support "sticky" alerts that remain until you dismiss them. But whereas Growl lets you make certain types of notifications within an app sticky and keep others normal, Notification Center supports sticky alerts only on an app-by-app basis. As a result, through little fault of its own, Bark can't pass along those sticky-alert settings. Even so, that doesn't dampen my enthusiasm for Bark.—LEX FRIEDMAN

Blackmagicdesign



THUNDERBOLT™

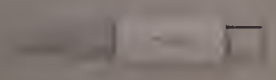
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UTILITY SOFTWARE

Sticky Notifications 1.0.4

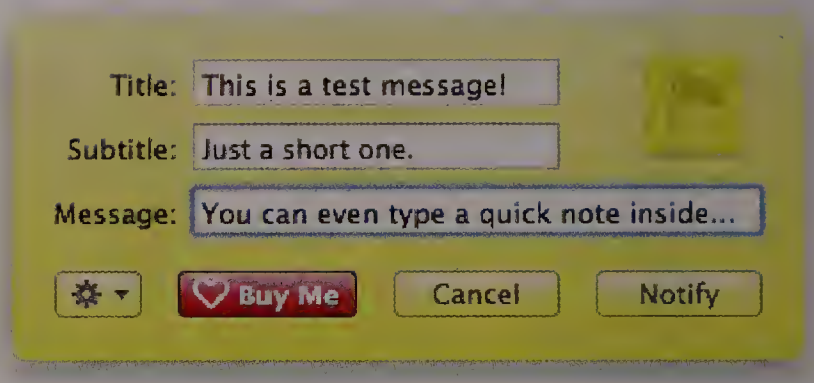
♦♦♦½; $3; Instinctive Code; instinctivecode.com

The simple Sticky Notifications lets you use Notification Center (OS X 10.8) or Growl (10.7 or 10.8) to post reminder alerts. In Lion, you don't even need to have Growl installed, since this app integrates the feature; in Mountain Lion, you can choose whether Sticky Notifications uses Growl or Notification Center.

When you launch the app, a note icon appears in the menu bar. Click the icon, or press the app's customizable keyboard shortcut (I use <Shift>-<Control>-<Option>-⌘-N), and a window opens for you to type a title and, optionally, a subtitle and a message. Once you press <Return> (or click Notify), the reminder appears as either a Mountain Lion notification or a Growl alert. It stays until you dismiss it by clicking it (unless you're using Growl).

If your reminder contains URLs, Sticky Notifications opens links in the appropriate programs when you click the alert.

You can tweak these Sticky Notification alerts via the standard Notification Center settings in System Preferences. For example, if you'd rather not have your reminders always visible on the desktop, you can switch them to Banner-style alerts so that they show only within Notification Center. You can also set how many recent Sticky Notifications alerts appear in Notification Center.



A systemwide service lets you create a new reminder from selected text, and an Automator action allows you to trigger notifications from within your workflows. The app also supports a URL scheme (sticky-notifications://) for making reminders, and it integrates with LaunchBar and Alfred to help you create new notifications from within your favorite launcher.

One issue: Only the first 48 characters of the Message field appear in Mountain Lion notifications, and even fewer show up in Growl alerts, with no apparent way for you to view the remainder. And when you create a note, the cursor remains in the field it was in when you last created a note, rather than starting in the Title field.

Sure, you could use OS X's Stickies app, but for a quick on-screen reminder, Stickies is overkill. (That's not a phrase I ever thought I'd use.) And your Sticky Notifications reminders won't get buried behind or between other application windows. I'm finding Sticky Notifications to be surprisingly handy.—DAN FRAKES

UTILITY SOFTWARE

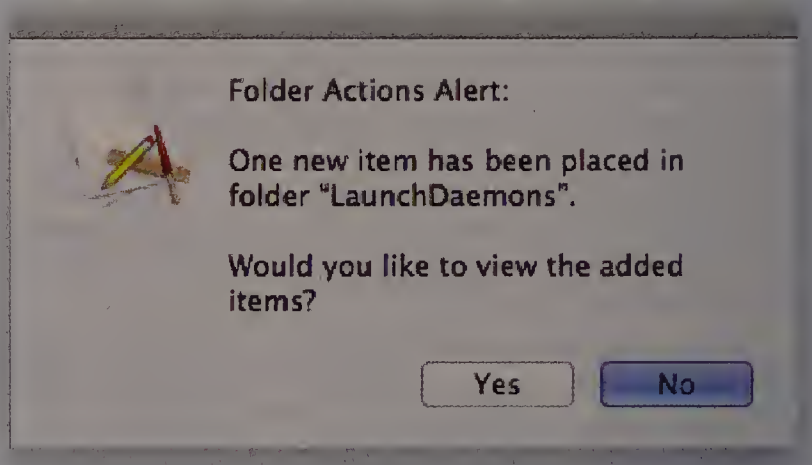
Automatic Launch Object Detection

♦♦♦½; free; Computer Incident Response Center Luxembourg; www.circl.lu/pub/tr-08/

When you're using your Mac, many running apps appear in the Dock, but there are also processes running in the background. An OS X feature called launchd uses configuration files to decide which of these processes should run and when. Many processes are good; some are necessary. But dishonorable parties can also exploit launchd to run malware or spyware.

How do you know when a new configuration file is created? Automatic Launch Object Detection uses OS X's AppleScript and Folder Actions to monitor the folders that hold launchd configuration files (and other background programs). When a change to the contents of one of these folders is detected, ALOD alerts you and offers to show you the new item(s).

The names of such files usually offer solid hints as to their purposes or sources. For example, on my Mac, an item called com.bombich.ccc.plist came from Carbon Copy Cloner, which happens to have the website URL bombich.com. If you don't want a particular configuration file, you can delete it.



One drawback: ALOD works only for the current user account. (Other users can install it in their own accounts.)

ALOD isn't a Gem because of a beautiful interface or scads of features, but because it cleverly uses OS X's own technologies to help you better manage your Mac.—DAN FRAKES

AluBase™

The upright MacBook stand

AluBase™ is the vertical stand for Apple MacBook Pro and MacBook Air.

Crafted from a single piece of high-grade aluminium, the AluBase™ ships with plastic inserts to hold MacBook Pro, MacBook Pro with Retina display and MacBook Air firmly upright.

Conceived by the award-winning Danish designer Jakob Wagner, AluBase™ is designed to turn your MacBook into a desktop sculpture. It's the most stylish solution for storing your iconic laptop, and an elegant way to use your MacBook with an external monitor and keyboard.



Design: Jakob Wagner

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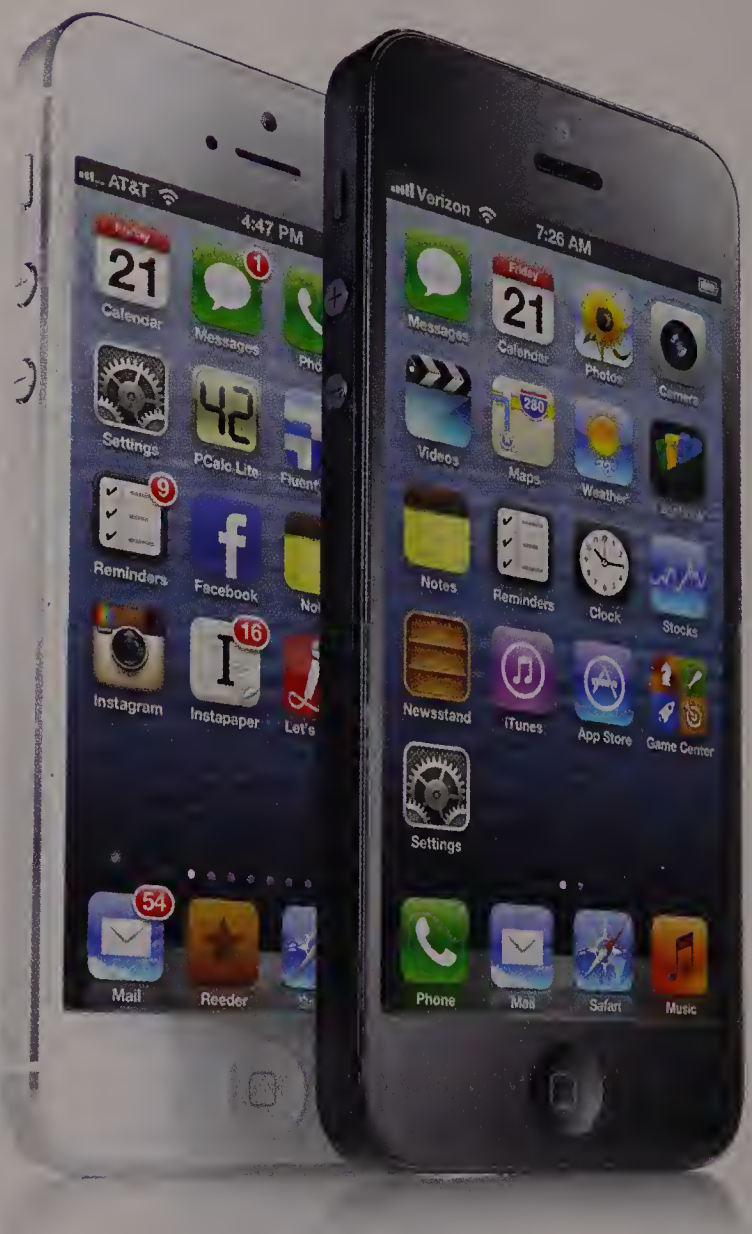
iOS Central

The Latest on the iPhone, iPod Touch, iPad, and App Store

iPhone 5 Takes Next Step in Smartphone Evolution

This new model continues the tradition of incrementally making a great phone greater.

BY JASON SNELL



Review

RATING
4½

PRICE
$199 (16GB), $299 (32GB), $399 (64GB)—prices include two-year contract; unlocked without contract, $649 to $849

COMPANY
Apple

URL
www.apple.com

It's been a little more than five years since Apple released the original iPhone. Meanwhile, the world has changed. People now expect fast, reliable Internet connections and bright touchscreens on devices they can fit in their pockets.

The iPhone, however, has remained recognizably the iPhone. Each successive generation has added welcome features, but none have strayed so far from the previous one as to be unrecognizable.

Now the iPhone 5 is here, and is it any surprise that this model doesn't reimagine the iPhone in a completely new way? No, it too is recognizably an iPhone, an evolution of previous models—yet it offers major advances on almost every front. In the technology industry's fastest-moving product category, it's the very best version of the most successful product produced by the world's most valuable company. If the iPhone 5 bores you, you are deficient in joie de vivre.

Improving on the Unimprovable

Almost every new Apple product is thinner, faster, and lighter than its predecessor. But I've wondered how much further down that path Apple could go with the iPhone without rewriting the laws of physics. Given that the iPhone 4S was just 9.3mm thick and weighed a meager 140 grams, I had assumed that any changes in future iPhone dimensions would be perceptible only on spec sheets.

Turns out I was completely wrong. In photos, a silver-and-white iPhone 5 looks not much different from the white iPhone 4 or 4S. But photos don't do justice to how thin it feels when you pick it up. Thanks to major materials upgrades (including thinner glass and the elimination of a layer of touch sensors), the iPhone 5 is about 80 percent as thick as its predecessor.

Even more impressive is the weight. At just 112 grams, the iPhone 5 feels almost like a movie prop when you pick it up, as if behind that glass screen there's foam rather than circuitry.

In order to make room for its taller display, the iPhone 5 is almost 9mm taller than the iPhone 4 and 4S. And yet the iPhone 5 is so thin that its overall volume is 12 percent less than that of the iPhone 4 or 4S and a third less than the original iPhone.

PHOTOGRAPHS BY ROBERT CARDIN

And yet for all of this reduction in weight and thickness, the iPhone still feels solid, not cheap; it's all metal and glass.

Darth Vader's Phone

In overall design philosophy, the iPhone 5 is a clear descendant of the iPhone 4. It's still got a flat front and back, a metal ring around its sides that also serves as the device's antenna, and those signature rounded edges. The most notable change is the replacement of the all-glass back of the iPhone 4 and 4S. On the iPhone 5, the bulk of the back is made from the same aluminum material as its sides; and there are still small glass panels top and bottom.

The metal ring itself is now beveled (OK, *chamfered*), which makes the phone feel more comfortable in your hand.

The white iPhone 5 closely resembles the white iPhone 4 and 4S, with its white glass and silver metal. But the black iPhone 5 model is completely different. The front and back have black glass, yes, but the metal band and metal strip on the back are both what Apple calls "slate"—a metallic matte black. The switches are black. The Apple logo on the back is black. Even the box it comes in is black. If the white-and-silver iPhone 5 is Gandalf's iPhone, the black-and-slate model is Darth Vader's.

When I had spent time only with the white iPhone 5, I felt less excited about its design. It was thinner and lighter, but it didn't look much different from the white iPhone 4S. The black model completely changed my opinion. It's gorgeous. Not everyone will want to embrace the Dark Side, but the black metal and black glass tie the design of the phone together in a way that the white-and-silver combo doesn't.

Movies and Apps Trade Letterboxes

Before the iPhone 5, all iPhone models had a 3.5-inch display with a 3:2 aspect ratio. The iPhone 5 breaks that mold, slightly: Its display is as wide as those of previous models (640 pixels on a Retina display), but it's now 176 pixels taller. The result is a 16:9 aspect ratio—the same as for an HDTV.

Beyond increasing the phone's height and adding roughly 113,000 pixels, this change allows every page of the home screen to fit an extra row of icons, so you can stick four more apps on each page. App folders are similarly expanded. Widescreen movies and TV shows fill the screen instead of displaying letterboxed (or with their sides cut off). Also, when you shoot video with the iPhone 5 camera, you can see the entire frame without double-tapping to zoom out, as with previous models.

Apps, on the other hand, display *with* black bars around them unless they've been updated to take advantage of the iPhone 5 screen's height. This isn't a big deal—the black bars are so black as to basically disappear into the rest of the display, especially on the black model.

Apps that have been updated to support the taller screen appear to have taken one of two approaches. Some just show you more of what you had before: more emails, more tweets, taller webpages. Other apps use the greater space to add information that wasn't visible before.

Size aside, the iPhone 5's display does appear to be an improvement. Colors appear more saturated and blacks seem blacker. It's not a major improvement, but it does look better.

Lightning Strikes

For people with a large hardware investment in Apple's iOS ecosystem—such as cables, speaker docks, and car chargers—the iPhone 5 signifies a major transition. This device marks the beginning of Apple's replacement of the nine-year-old 30-pin dock connector with the new Lightning connector (macworld.com/a/1168555).

While Lightning-to-30-pin adapters will be available, this change almost inevitably sounds the death knell for many older accessories. Also, a transition like this has its frustrations. The iPhone 5 comes with a single cable, so if you want to charge your phone both at home and at work, you will need to carry the cable with you or buy a spare for $19. In time, this will all work out and Lightning cables will become common. But until then we'll be paying for adapters and cables and grousing all the way.

In a Flash: Mobile Cameras Compared

	STILL COLOR	STILL SHARPNESS	STILL FLASH PHOTO	LOW-LIGHT VIDEO QUALITY	NORMAL VIDEO QUALITY	AUDIO QUALITY
iPhone 5	4	4.5	4	3	4	3.5
iPhone 4S	3.5	3	3	4	3.5	3
iPad 3rd Generation	3.5	3.5	2	2.5	3	3
Samsung Galaxy S III	4	4	4	2	4	2

Scores are on a 1-to-5-point quality scale as rated by a jury of three *Macworld* editors. Higher scores are better.

The iPhone 5 marks the beginning of Apple's replacement of the 30-pin dock connector with the new Lightning connector.



Back in Black The black iPhone 5 sports a black front and back with a metallic matte-black band and strip on the back.

So why did Apple replace the venerable dock connector with Lightning? There are plenty of reasons. The new connector is strikingly smaller than the old one. It's smarter than USB. It's also better, because there's no wrong way to insert the cable into the device.

Finally, in a switch that will change the way you remove your iPhone from your pocket, Apple has moved the headphone jack on the iPhone from the top, where it's resided for five years, to the bottom. Now when I pull my iPhone out of my pocket while listening to music, I need to rotate the top toward me, rather than away from me. This new position has the distinct advantage of keeping your headphone cord from dangling down over the screen.

Faster All Around

The iPhone 5 is speedier. Its upgraded dual-core A6 processor makes it the fastest iOS device ever (macworld.com/a/2010360) and quite possibly the fastest phone in existence. But on a mobile device, there's another place where speed matters: cellular data. And the iPhone 5 can now connect to LTE (Long-Term Evolution) cellular networks, which offer vastly faster speeds than the old GSM (AT&T) and CDMA (Verizon, Sprint) networks.

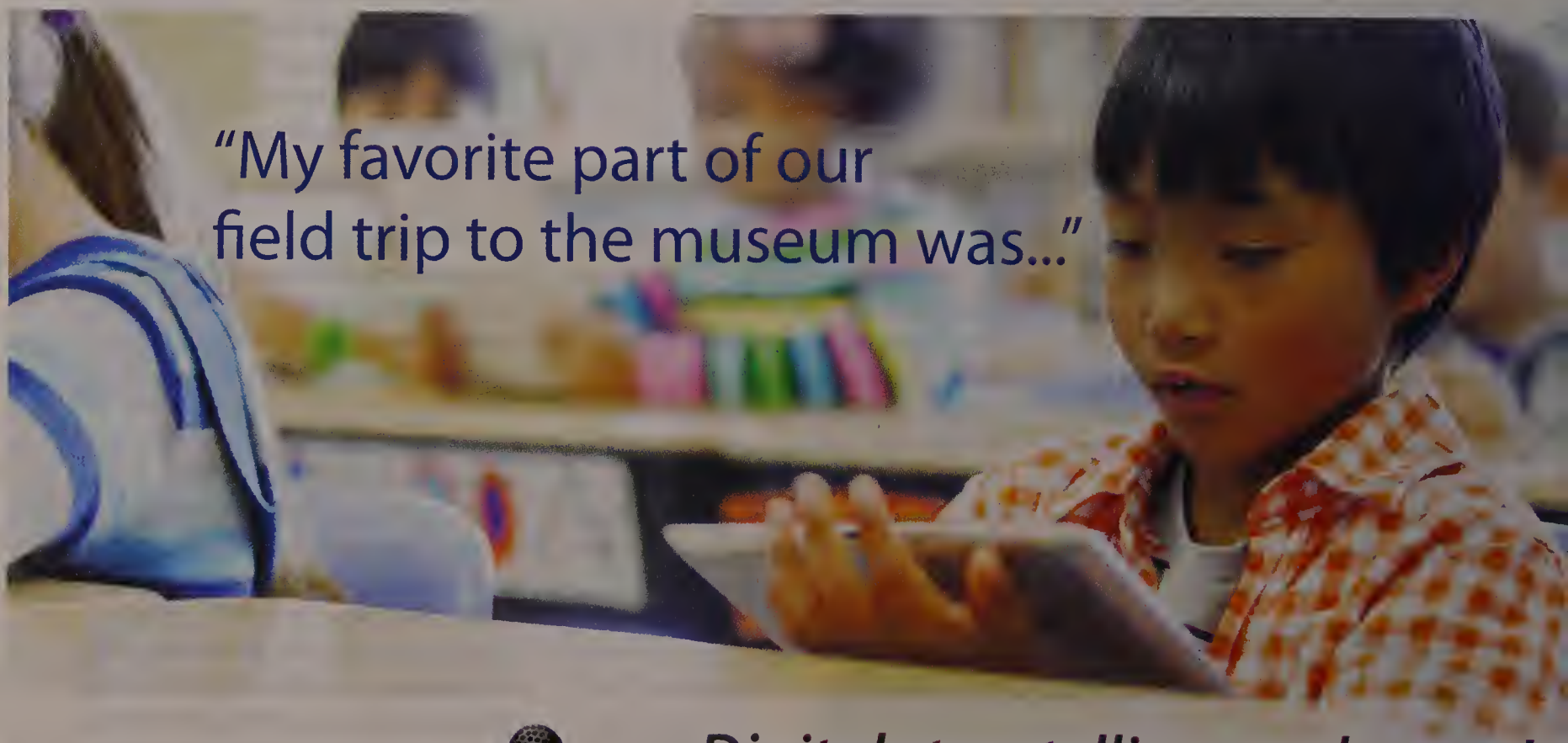
Let's start with the processor. In almost every test we performed, the iPhone 5 ran laps around all previous iPhones *and* iPads. (See "Speed Demons: iOS Devices Compared" on page 32.) Its Geekbench test score was more than twice as high as those of its closest competitors, the iPad 2 and the third-generation iPad. It loaded a webpage in three-quarters of the time the iPhone 4S and third-generation iPad took. And it completed the SunSpider JavaScript benchmark in 64 percent of the time it took the iPad 2 and third-generation iPad. Graphics performance was just as impressive, including a 2X improvement in frame rates over the iPhone 4S. And the WebVizBench HTML 5 test found the iPhone 5 three times as fast as the 4S. In person? It's pretty much the same story. The iPhone 5's speed boost is most noticeable on more processor-intensive apps such as games, but apps open almost immediately, and there's no waiting when switching between interface elements.

Apple claims the iPhone 5's battery life is roughly comparable to that of the



Speed Boost The iPhone 5's upgraded dual-core A6 processor and LTE connectivity makes it the fastest iOS device.

PHOTOGRAPHS BY ROBERT CARDIN



iPhone 4S, and I found that to be pretty much the case.

If you were hoping that Apple's latest phone would have dramatically improved battery life, this won't be good news. Apple has a target amount of battery life for its devices that it thinks is reasonable, and beyond that the company seems to always prize a smaller, thinner design more than a humongous battery.

Then there's the LTE networking. In the best situations, LTE speeds make you feel you're on a Wi-Fi network even when you're not. As with anything cellular, your LTE mileage may vary. In our offices in downtown San Francisco, I was able to measure download speeds of 20 megabits per second (mbps) on AT&T and 23-mbps on Verizon. Upload speeds were 17 mbps (AT&T) and 14 mbps (Verizon). Compare this to the 4-mbps downloads and 0.3-mbps uploads I saw on AT&T's older GSM network. Downloads that are five times faster? Not bad.

That said, LTE coverage can be spotty. Verizon has the largest LTE coverage in the United States, though AT&T is rolling out its network rapidly. (Sprint is further behind.) If you're in a city not served by AT&T's LTE network, you'll want to consider Verizon.

Camera Improvements

Like the iPhone 4S, the iPhone 5 offers an 8-megapixel rear-facing camera. Apple claims that the iPhone 5 camera offers faster photo capture, better low-light performance, and improved noise reduction than its predecessor.

In my experience, these claims were more or less true. Taking pictures is noticeably faster, even with notoriously poky HDR image captures. iPhone 5 images taken in low light looked better and were less noisy.

Our lab also compared the iPhone 5, iPhone 4S, third-generation iPad, and Samsung Galaxy S III in a series of still-image and video tests. The results show that the iPhone 5 is a step ahead of the 4S. The iPhone 5 camera matched or beat the Galaxy S III's camera in every test, though the two were much more closely matched when it came to stills. In general, the iPhone 5 camera produced images with more-pleasing colors, while the Galaxy S III's camera rendered colors more accurately. (See "In a Flash: Mobile Cameras Compared" on page 29.)



New Connection iPhone 5's new Lightning connector replaces Apple's nine-year-old 30-pin dock-connector port.





Side by Side The iPhone 5 is nearly 9mm taller than the iPhone 4 and 4S.

The big upgrade in the iPhone 5's imaging system is actually its front-facing camera, which is now capable of 720p video. It's better for FaceTime video calls and self-portraits.

Other Small Changes

The iPhone 5 offers many small changes. There are improvements to audio, including multiple microphones to cancel noise. The iPhone 5 also supports *wideband audio*. It's a technology that expands the range of frequencies transmitted over a voice call, making calls sound richer and more natural.

The iPhone 5 comes with a set of new headphones—called EarPods—that sound a lot better than the previous included set (macworld.com/a/2010291). The new smartphone also runs on the latest version of iOS 6.

Bottom Line

Every time Apple releases a new iPhone, I hear the question: Should someone who has last year's model upgrade? In general, the answer is a qualified no. Apple knows that most U.S. iPhone users (and many overseas) buy their phones subsidized by their carrier in exchange for a two-year contract extension. The iPhone 5 is a great upgrade, but should an iPhone 4S user pay a huge penalty to upgrade? Probably not. And that's not the point, anyway. The iPhone 5 is a nice upgrade from the 4S, but it's a massive improvement over the iPhone 4 and 3GS, the models from which most upgraders will be upgrading.

Does the iPhone 5 live up to expectations? Unless you expected something impossible and miraculous, I think the answer has to be yes. It's by far the fastest iOS device ever in terms of processor and graphics, and its support for LTE networking makes it the fastest iPhone in terms of cellular-data-transfer speed, too. It's so thin and light that it almost defies the laws of physics. And the black-and-slate model is gorgeous looking.

Once again, Apple hasn't reinvented the iPhone. All it's done is make the best smartphone around even better.

Speed Demons: iOS Devices Compared

	GEEKBENCH	PAGE LOAD	SUNSPIDER	GLBENCHMARK	WEBVIZBENCH
iPhone 5	**1623**	**8.2**	**0.92**	**147.3**	**3.6**
iPhone 4S	630	10.7	1.77	72.7	1.2
iPhone 4	390	12.1	2.97	11	0.7
iPad (3rd gen)	759	10.4	1.43	125	2.1
iPad 2	760	11.1	1.44	86.7	1.8

Best results are in **bold.** Larger numbers are better for GeekBench, GLBenchmark (Egypt Offscreen), and WebVizBench. Smaller numbers are better for Page Load and SunSpider.—LAB TESTING BY JAMES GALBRAITH

What's New at the App Store



Cards

New in Cards 2.0 (macworld.com/7588) is native support for the iPad, so you can take advantage of the iPad's roomier screen to create and send your missives. Other new options include integration with iPhoto, and support for the iPhone 5's taller screen.—LEX FRIEDMAN



iPhoto

iPhoto 1.1 (macworld.com/7823) adds support for the iPod touch (fourth generation and newer); the Help system gains some tips; and automated cropping gets smarter. Plus, you can now share photos to Cards, iMovie, and other apps.—LEX FRIEDMAN



iMovie

iMovie (macworld.com/7649) gains three new trailer options in version 1.4. Photos that you add to trailers are automatically animated with Apple's beloved Ken Burns effect.—LEX FRIEDMAN



GarageBand

GarageBand Version 1.3 (macworld.com/7054) lets you create custom ringtones and alerts for your iPhone, iPad, or iPod touch, if you're running iOS 6 or later. You can also import songs from the Music library to your iOS device.—LEX FRIEDMAN



Smaller Updates

Keynote 1.6.2 (macworld.com/8012) gains support for iOS 6 and the ability to open presentations in another app. AirPort Utility 1.1.1 (macworld.com/8013), iBooks 2.2 (macworld.com/8014), and Remote 2.4 (macworld.com/8015) also add iOS 6 support. And Podcasts 1.1 (macworld.com/8016) gets iOS 6 support, including a pull-to-refresh option for checking for new podcasts.—LEX FRIEDMAN

PHOTOGRAPH BY ROBERT CARDIN



i am a musical launch pad.

Set your music free with the iHome iW3 AirPlay wireless audio system. Wirelessly stream your music from your iPod, iPhone, iPad or computer to anywhere you've got Wi-Fi. Just lift it off its rechargeable base with built-in lithium battery and you're free to roam from room to room without music interruption. And with SRS Labs' digital sound processing and Apple AirPlay technology, the iW3 delivers incredible audio to every room in your house (backyard included), no strings attached.

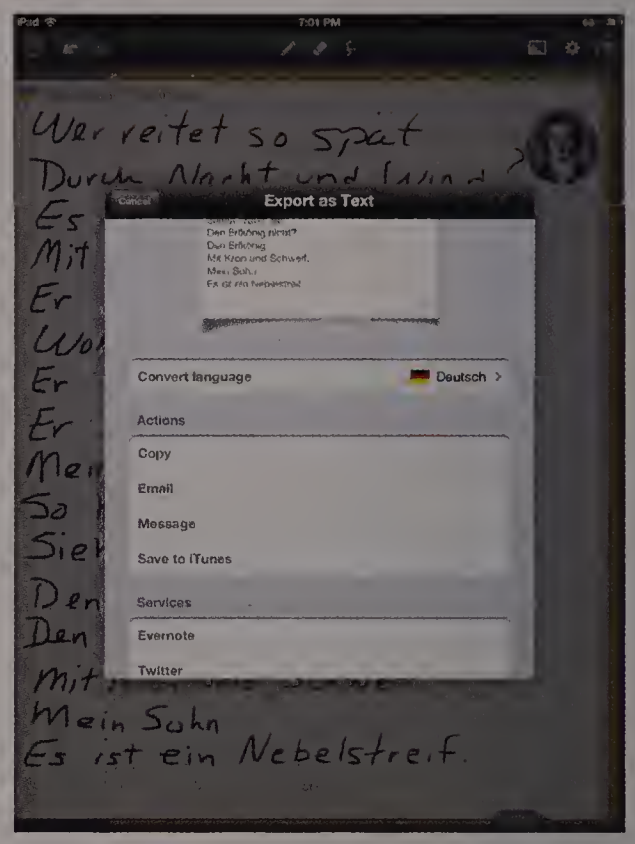
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App Guide

Software for Your iPhone, iPod Touch, and iPad



MyScript Notes Mobile

PRODUCTIVITY MyScript Notes Mobile from Vision Objects is an iOS note-taking app. It focuses on handwriting as the *only* form of input and shows its bias toward handwritten input with a spartan set of tools: a pen, an eraser, and a selection tool. You can add images to your notes pages, either from your camera or via your iPad's photo library. You can also move and resize the images, but there's no apparent way to crop or group them. Those options would be useful. For those who like to rest their hands on the screen while writing, the app provides a useful wrist shield. If you're not sure if this app is for you, then download the free MyScript Memo.—BRIAN BEAM

iPad | ★★★½; $8; Vision Objects

APP GEMS

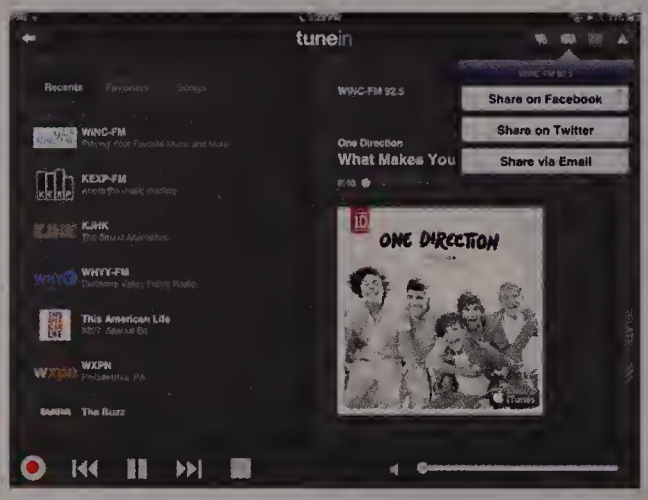
Top Obstacle-Course Games

Ski Safari ★★★★½ Race on skis to keep one step ahead of avalanche doom while you navigate hills, dips, and other alpine obstacles (macworld.com/8005).

Bike Baron ★★★★ (macworld.com/8006).

JellyCar 3 ★★★★ (macworld.com/8007).

To find other gaming apps, go to macworld.com/8017.



TuneIn Radio Pro

MUSIC TuneIn Radio Pro, a $1 app for the iPhone and iPad, creates a sort of audio DVR for your iOS device. TuneIn Radio Pro has radio feeds from 70,000 stations and reportedly more than 2 million podcast selections, while also offering users the option to record live radio feeds. TuneIn Radio Pro offers nearly unmatched power to create an individualized listening experience, which is both different from and better than many other streaming radio apps available.—JOEL MATHIS

iPhone/iPad | ★★★★½; $1; TuneIn

Photosynth

PHOTOGRAPHY Photosynth uses algorithms to help you create interactive, 3D panoramas. You tap a camera icon at the bottom of the screen, orient your iOS device in portrait or landscape mode, and tap again to begin panning across your scene. As you move the camera, you must keep it in the same plane of motion, without rotating it or tipping it forward or backward. The app then uses that image information to try to capture new portions of the scene automatically. When you tap *Done*, the app shows a preview of all the frames captured and stitches them together. Unfortunately, you can't tweak the results—whatever the Photosynth algorithm comes up with is what you get. Once you're done, you can post your creation to Facebook and Twitter.—GLENN FLEISHMAN

iPhone/iPad | ★★★★½; free; Microsoft





Toca Band

GAMES Toca Boca's latest offering, Toca Band, focuses on music. Toca Band features bright, colorful, well-drawn visuals. When the app starts, you see a nearly empty stage, atop which sit eight performance platforms. Across the bottom of the screen is a scrolling row of 16 animated characters. You can drag any of these comical critters to any spot on the stage. Some of the characters are musicians playing instruments, four of them are singers, other creatures are themselves instruments. The further back on the stage you place a character, the more boisterously it will play its instrument. Whichever way you assemble your band, the result will be at the very least a reasonable, melodic tune.—**LEX FRIEDMAN**

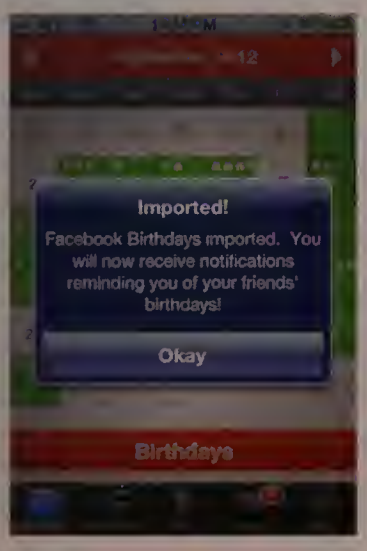
iPhone/iPad | ●●●½; $2; Toca Boca

Amoebattle



GAMES This colorful real-time strategy offering from Grab Games boasts a brisk challenge to match its enticing gameplay. Aided by a robot advisor, your initial battles to cleanse each map of rampaging rogue amoeba do a great job of setting up the familiar-yet-fresh RTS game. The hefty campaign soon grows tougher as new units, enemies, and challenges are layered onto the core foundation. Fortunately, well-designed touch controls make directing multiple groups of microscopic comrades a comfortable process. Overall, it's an entertaining RTS romp.—**NATHAN MEUNIER**

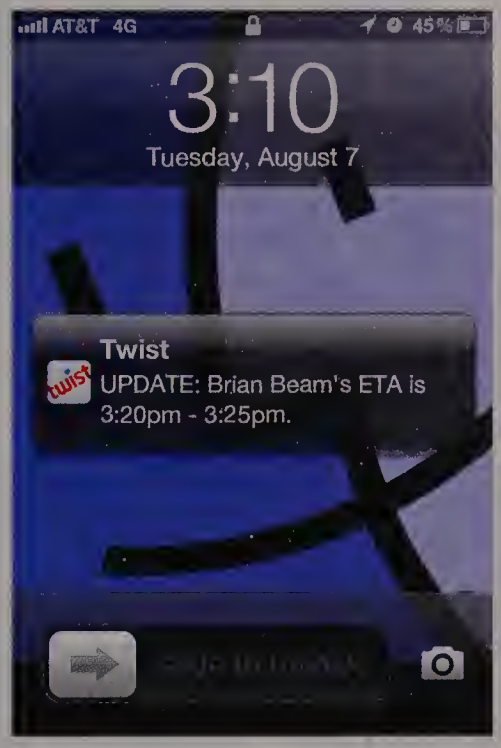
iPhone/iPad | ●●●●; $5; Grab Games



MyCalendar Mobile

UTILITY MyCalendar Mobile by K-Factor Media is an iOS app to help you remember your friends' birthdays. It's focused on Facebook friends, but it can also gather birthdays from the Contacts stored on your iPhone, iPod touch, or iPad, as well as birthdays that you enter manually. The first time you open the app, it asks you to download the birthdays of all your Facebook friends. The squares on the calendar are filled with birthday-present icons, and tapping on a day displays a list of the birthdays.—**BRIAN BEAM**

iPhone | ●●●; $1; K-Factor Media



Twist

UTILITY Anyone who's ever been late arriving home or to a meeting will appreciate Twist, a free app by Twist and Shout. This app does one thing very well—it tracks your location and notifies those waiting for you of your estimated time of arrival. You create a "twist" by choosing your destination and the people who are to be notified. As you start typing the address, Twist provides possible matches, including those from your Contacts. Pins appear on the map, which you use to select your destination. From there, you select one or more people to be notified, either via your Contacts list or by entering email addresses or phone numbers manually. Lastly, you specify your mode of transportation. Twist then uses local traffic data to plot an optimized route for you, including an estimate of the travel time and your estimated arrival time. The app then sends out notifications, announcing your departure time and estimated arrival time. As you approach your destination, Twist sends out another notification saying that you're about a minute away. If it looks like you'll miss the original arrival time, then Twist will send out periodic updates until you arrive.—**BRIAN BEAM**

iPhone | ●●●●½; free; Twist and Shout

Reviews

Accessories and Add-ons for Your iOS Devices



Hardware

Dresden Klaus 9i

3½; $75; Spigen; www.spigen.com

When it comes to iPad bags, sometimes less is more. After all, what's the point of having a tablet if you have to carry it around in a big, bulky bag? The $75 Dresden Klaus 9i messenger-style bag is a good solution for anyone seeking sleek, simple, no-frills functionality. The bag is light and thin, but solid enough to protect your iPad. The Dresden Klaus 9i sports two iPad-size pockets and two slightly smaller pockets for cables and other accessories. My only complaint is that the interior is not quite big enough to fit a newspaper or magazine, though smaller notebooks will easily fit. The Klaus 9i is available only in black.—KARISSA BELL



Mophie Juice Pack Pro

3½; $130; Mophie; www.mophie.com

Mophie's $130 Juice Pack Pro is a rugged battery case that fits the iPhone 4 and 4S. The case combines a 2500-milliamp-hour battery case with a rubberized, water-tight shell. The Juice Pack Pro is, by necessity, big, heavy, and thick. The case adds a full pound to your iPhone's weight, and it measures 5.26 inches tall, 2.78 inches wide, and 1.02 inches thick. It feels big, both in my pocket and in my hand. If you don't need the crazy levels of protection, perhaps a stand-alone battery case—like Mophie's own Juice Pack Plus—might make more sense. But if you need both the extra power *and* serious protection from the elements, I know of no better option.—LEX FRIEDMAN



Twelve South BookBook Vol 2

3½; $80; Twelve South; twelvesouth.com

Twelve South's $80 BookBook is a striking-looking case that comes in three colors: black, brown, or red. A zipper runs around three edges of the BookBook, where the pages would be visible if this were an actual book. A leather frame on the right-hand panel supports the new iPad or the iPad 2. That frame unsnaps at the spine and unfolds, revealing a space for inserting your iPad. Unfortunately, the frame is too snug, which makes plugging in the charger a bit tricky, since the space cut into the leather doesn't match up perfectly with the port. When it's all zipped up, though, the BookBook does do a good job of protecting your iPad. Of course, with great protection comes great bulk, and the BookBook makes your iPad more than twice as thick.—ALBERT FILICE

iOS Devices: Current Lineup

PRODUCT	SPECS	RATING	PRICE [1]	DISPLAY	PERFORMANCE	FIND CODE [2]
iPad [3] 	16GB	Wi-Fi, 4½; 4G, 4½	Wi-Fi, $499; 4G, $629	9.7-inch color (Retina)	10 hours on Wi-Fi; 9 hours on 4G	7696 Wi-Fi 7699 4G
	32GB	Wi-Fi, 4½; 4G, 4½	Wi-Fi, $599; 4G, $729	9.7-inch color (Retina)	10 hours on Wi-Fi; 9 hours on 4G	7697 Wi-Fi 7700 4G
	64GB	Wi-Fi, 4½; 4G, 4½	Wi-Fi, $699; 4G, $829	9.7-inch color (Retina)	10 hours on Wi-Fi; 9 hours on 4G	7698 Wi-Fi 7701 4G
	16GB (iPad 2)	Wi-Fi, 4½; 3G, 4½	Wi-Fi, $399; 3G, $529	9.7-inch color	10 hours on Wi-Fi; 9 hours on 3G	7030 Wi-Fi 7031 4G
iPhone 4, 4S, and 5 	8GB 4 [4]	4	free	3.5-inch color (Retina)	10 hours of Wi-Fi Internet; 7 hours of 3G talk time	7516 GSM 7520 CDMA
	16GB 4S [5]	4	$99	3.5-inch color (Retina)	9 hours of Wi-Fi Internet; 8 hours of 3G talk time	7517
	16GB 5 [5]	4½	$199	4-inch color (Retina)	10 hours of Wi-Fi Internet; 8 hours of 3G talk time	7970
	32GB 5 [5]	4½	$299	4-inch color (Retina)	10 hours of Wi-Fi Internet; 8 hours of 3G talk time	7971
	64GB 5 [5]	4½	$399	4-inch color (Retina)	10 hours of Wi-Fi Internet; 8 hours of 3G talk time	7972
iPod Touch 4th Generation 	16GB	4½	$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB	4½	$249	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
iPod Touch 5th Generation 	32GB	n/a	$299	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	7967
	64GB	n/a	$399	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	7968

n/a = not available. [1]All prices are Apple's prices. [2]In a browser's address field, typing in a find code after *macworld.com/* takes you to a product's review or overview. [3]There are separate Wi-Fi + 4G iPad models for AT&T's network and for Verizon's. [4] This phone is available only with an AT&T plan. [5] These models are available with an AT&T, Sprint, or Verizon plan.

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iOS 6

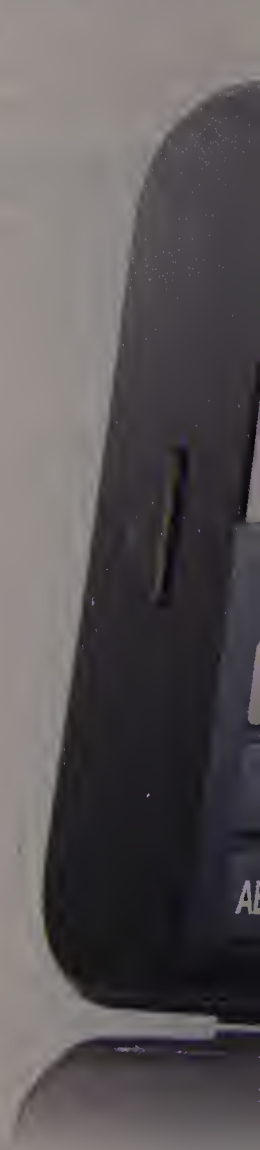
Apple's updated mobile OS is good, not flawless.

There are now roughly 400 million devices in the world that run the iOS operating system. Compare that with the installed base of 66 million Macs that Apple reported at its 2012 Worldwide Developers Conference, and you can see why the release of a new version of iOS is a big deal.

But that's not the only reason it's important. With iOS 6, Apple makes the car-truck distinction that Steve Jobs used to draw even more starkly: Sure, some people will still need the full power of a Mac (the truck in this metaphor). But for a very large number of buyers, a tablet or even a phone running iOS 6 could be all they need, since it does a better job with email, Web browsing, social networking, and other everyday tasks than ever before.

Read on to find out more about what iOS 6 could do for you. It isn't perfect. But it is the best iOS yet.

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AT&T
10:27 AM
Tuesday
9
Calendar
Photos
Camera
Messages
Videos
280
Maps
73°
Weather
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Clock
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Review:

Refined iOS 6 Upgrade Marred by Disappointing Maps App

BY DAN MOREN

Review
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Following on the heels of the massive update that was iOS 5, iOS 6 might seem modest. But that doesn't make it insignificant by any means: A key app has undergone a substantial overhaul in this latest update, Apple has added an intriguing (if yet unproven) built-in app, and the company has, for the first time, removed a piece of software present since the iPhone's launch.

In addition, Apple has updated and refined many features, and has tweaked user interface conventions across the operating system. The company is also rolling out certain features—Facebook integration, Mail VIPs—to both its mobile and desktop OSs, ushering in a new strategy of giving the two platforms parity when it makes sense to do so.

Off the Map

Every new release of iOS has its marquee feature, and in iOS 6 it is unquestionably Maps. The app has been given an in-depth makeover, perhaps the most thorough ever to be applied to one of iOS's built-in applications. Most significantly, Apple has replaced the old iOS mapping engine—powered by Google—with its own, supported by mapping data from GPS maker TomTom, OpenStreetMap, and others. However, that switch does not seem to have improved the app's geographical knowledge.

For example, when I searched for the Eiffel Tower, the app correctly located it in France. But when I searched for Notre Dame (while still looking at a map of Paris), Maps tried to send me to South Bend, Indiana. That's likely because Apple's points-of-interest database isn't yet as deep as Google's. Apple promises that, as more and more people use the Maps app, its results will improve. Users are encouraged to report problems, by way of tools built into the app itself.

Another glitch I noticed: On a trip to a remote part of Canada, I saw disparities between the old and new Maps in the way they rendered the shapes of certain landmasses. But that was more of an aesthetic difference than anything else.

Maps' biggest new feature is the long-awaited addition of turn-by-turn directions. Navigation mode has a lot of nice touches. For example, I like the floating signs that identify nearby streets, and the fact that the streets you're going to turn onto are blue rather than green. The instructions to make turns and such are generally large and easy to read.

But the directions themselves can be a mixed bag. I live outside of Boston—a notoriously hard city to map. Although Maps often does well with logically straightforward directions, at times it suggests routes no native would take. While iOS 6's turn-by-turn directions are generally sufficient, it probably wouldn't hurt to have some other maps on hand.

> Apple has updated and refined many features, and has tweaked user interface conventions across the operating system.



Finding Your Way While turn-by-turn directions are available in Maps, you can still access the step-by-step kind.



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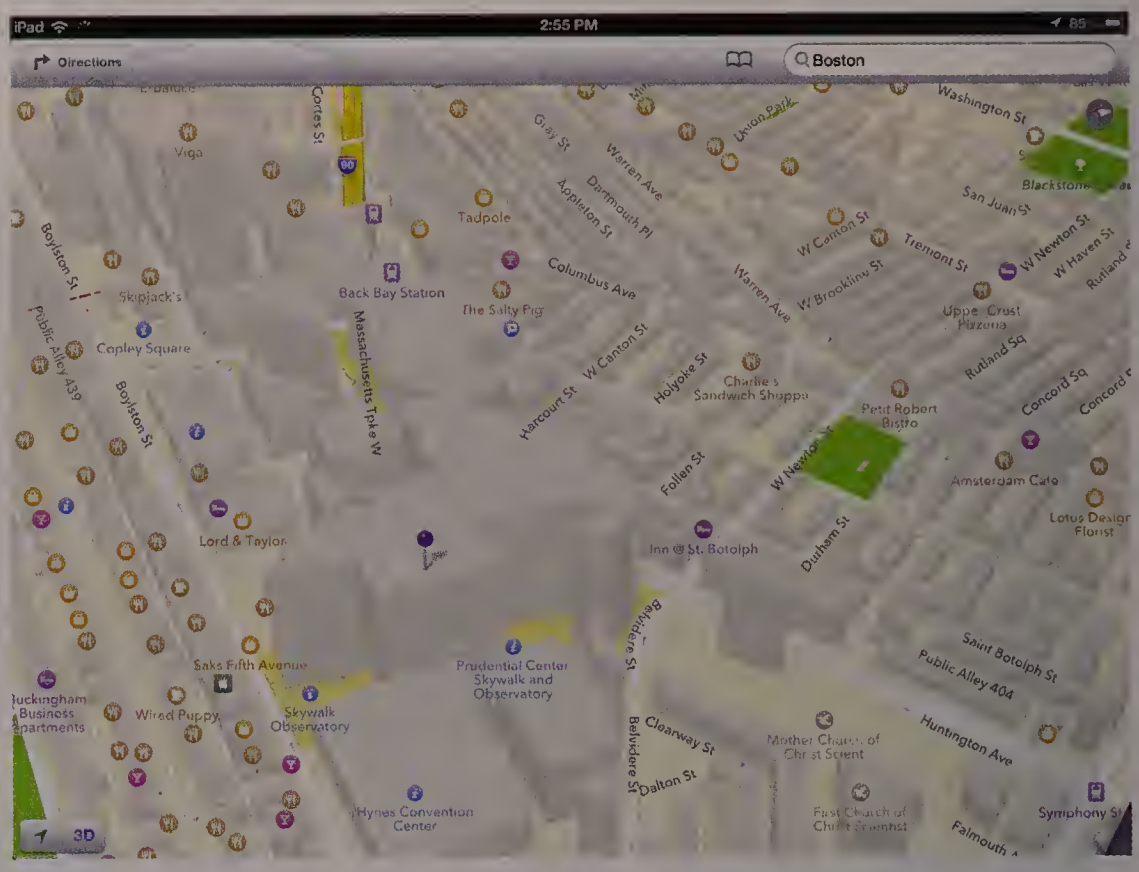
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Transit directions are a whole new ballgame in this update, as Apple has added an API to let third-party developers accept transit-direction start and end points. Selecting transit directions and tapping the *Route* button produces a new screen labeled Routing Apps.

While routing worked fine in the only app I had available to test, Embark iBART, it won't give you the same experience as iOS 5 did. For example, Embark iBART gave me a timetable of trains that I could catch, but it wouldn't tell me how far I would have to walk from my current position to reach the train station, nor would it tell me how far I'd have to walk from the destination stop to my final goal.

I suspect that handling public-transit directions simply wasn't an option for Apple at this point. Speaking from my own experience, I'd long switched over to a third-party app specifically for public transit in my city, so I'm not sure how much Maps' change will affect me.

Flyovers is Maps' most eye-catching addition, and what it lacks in practicality, it makes up for in gee-whiz. The 3D pictures are impressive, though they are so far available almost exclusively in larger cities. The images also render fairly slowly, at least in my experience on the latest-generation iPad or iPhone 4S.



Points of Interest Map icons identify businesses and other establishments, and lead to Yelp reviews where available.

the local search options, thanks to tighter integration with Yelp. If the restaurant uses the OpenTable service, you can tap a button to make reservations, or even have Siri do it. Of all Siri's features, this is the one that strikes me as the most futuristic: I just told my robot assistant to make me dinner reservations—and it did.

In general, Siri handles certain things a little better now than before. For example, more than one option—say, when you're in your car, with its Bluetooth stereo—a button allows you to route Siri's voice to either the iPhone's speakers or your car's.

I'm heartened by the fact that Apple hasn't ditched Siri, despite the grief the feature has taken in some places. This is one of those technologies that has the potential to redefine how we interact with devices, but its growth is a slow, gradual process, and it won't seem revolutionary until we look back at how far we've come.

> While iOS 6's turn-by-turn directions are generally sufficient, it probably wouldn't hurt to have some other maps on hand.

For a company's first foray into a complex field, iOS 6's maps and directions are remarkably good. Does iOS succeed in replacing a stand-alone GPS device? In a word: Maybe. If you already have a GPS unit or an iOS GPS app that you like, I won't tell you to throw it out. But I won't tell you to buy a GPS device either.

Conversing With Siri

In addition to all its old tricks, Siri picks up a few new capabilities in iOS 6, focusing on sports, movies, and restaurants.

The restaurant information is probably Siri's best new feature. iOS 6 improves

you can now change the text for a reminder while you're creating it, and sending someone a message via Siri is a bit more streamlined. Siri still has shortcomings, however. It can't read your email to you, or change your settings, and trying to edit an email message or iMessage you've composed via Siri is liable to induce hair-tearing. And much as I would like to be able to offer an opinion on Siri's Eyes Free mode, it's surprisingly difficult to get a BMW test unit.

Perhaps my favorite new feature is one of the simplest: You can control where Siri's audio output goes. When you have

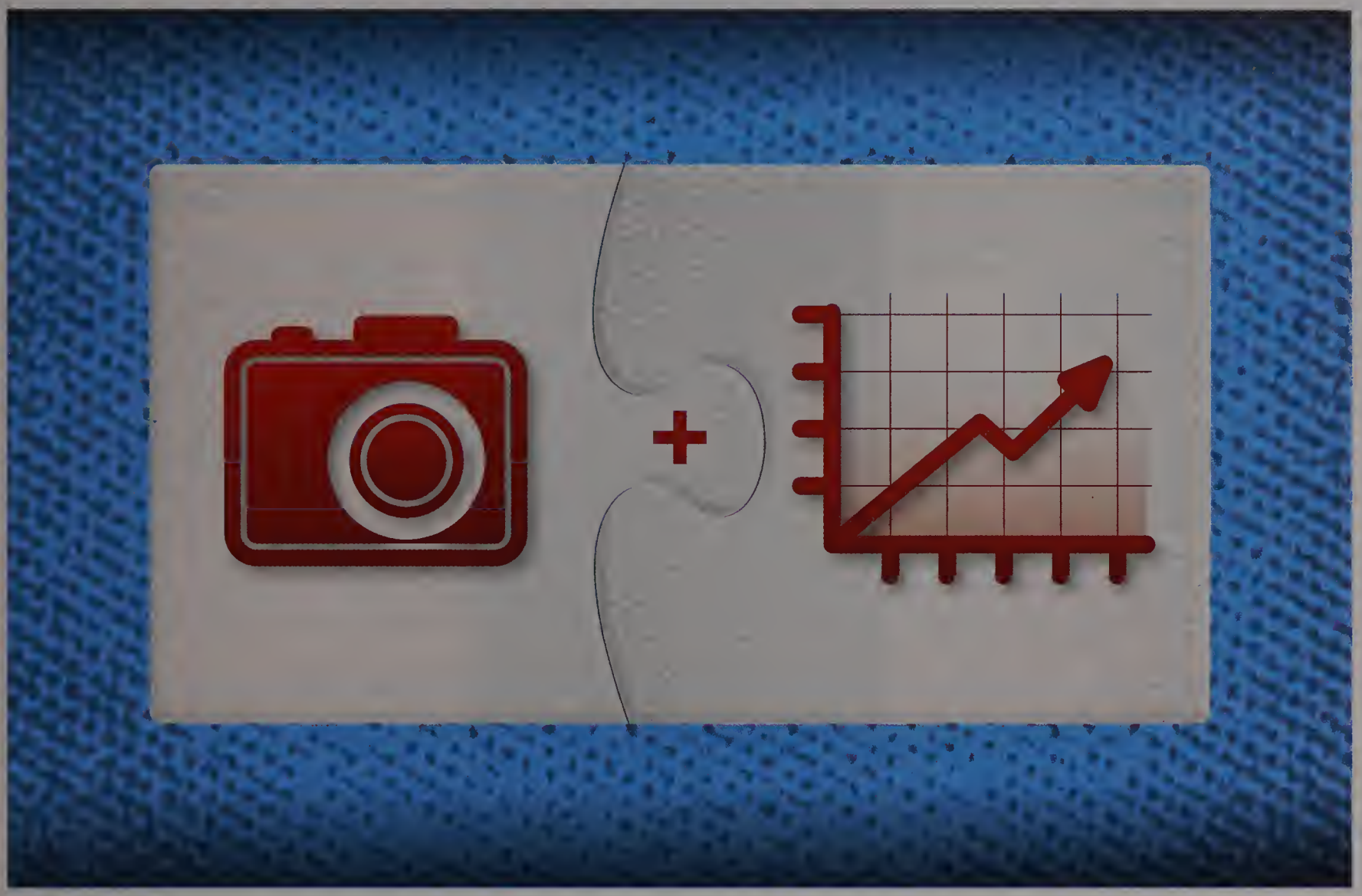
Call Me, Call Me

The Phone app gets a few enhancements in iOS 6. For instance, iOS 6 adds two options that appear next to the Slide To Answer prompt when you receive a call: Reply With Message and Remind Me Later. The first option lets you send one of three boilerplate text messages, each prefixed with "Can't talk right now." The second option lets you automatically set a reminder to call the person back. It's an unexpected but welcome improvement—who thought the telephone could still be improved after all these years?

Another enhancement: You can now

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make FaceTime calls over a cell network, though that depends on your carrier. While Verizon and Sprint are placing no restrictions on FaceTime calling over cellular, AT&T has said that it will allow only customers with its Shared Data plans to use the feature. Thanks to a friend with a Verizon iPhone, I was able to see the feature in action. The verdict? It looks a lot like FaceTime over Wi-Fi. The only appreciable difference was a bit more lag before the person on the other end responded. But I can't say whether that was a function of the cellular network or that particular connection.

Passing on Passbook

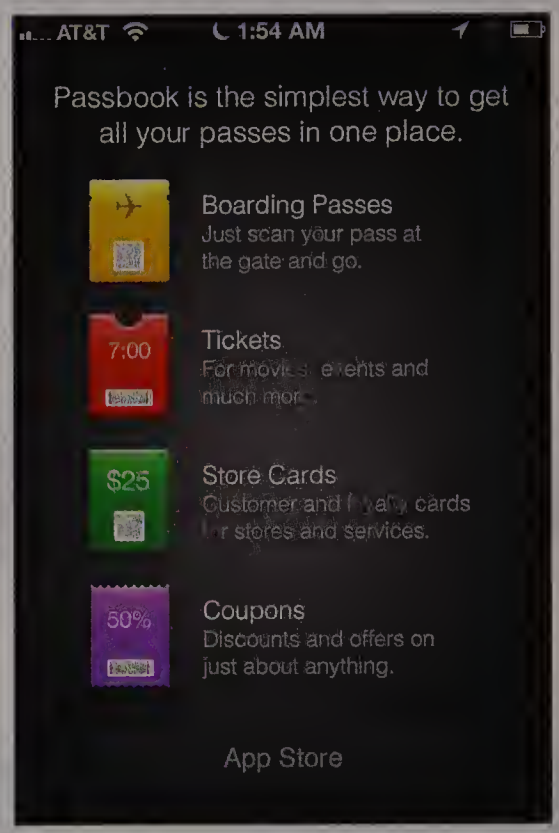
I'd love to tell you that Passbook is another revolutionary technology—heck, I'd love to tell you anything about Passbook. Unfortunately, as I write this the app remains an enigma. I've been unable to locate an app or business that is actively taking advantage of Passbook, so all I know is what Apple has told us: The goal of Passbook is to collect all cards, passes, coupons, and tickets that you carry into a single, central location. When you enter the relevant establishment, you can pull out Passbook and display the correct card, complete with a scannable bar code. Passes can be time or location based, popping up a notification on your lock screen at the appropriate moment.

I have visions of how this idea could evolve: Imagine buying movie tickets via Siri and having them show up in Passbook. But we're going to have to see how this feature fares in the real world and how many other companies support it.

Priority Mail

In iOS 6, Mail appears to have fairly few changes compared to previous versions. The most prominent is the addition of the VIP feature that debuted with Mountain Lion. Once you've designated someone a VIP, you'll see a blue star appear on any new messages from them. Thanks to iCloud, your VIPs are synced among all your iOS 6 and Mountain Lion devices. VIP messages also appear in a VIP smart mailbox, and you can set up notifications specifically for VIP mail.

As with Mail, Safari's improvements are fairly modest in iOS 6, though a couple of additions bring extra functionality.



Passbook's Potential Although keeping tickets and coupons in one place sounds good, few businesses support it currently.

The introduction of VIPs marks the first time I've turned email notifications on since the days of the original iPhone. It's a helpful addition, though I miss one of Mountain Lion Mail's extensions of it: the ability to get a notification for any email from someone in your contacts.

The other major improvement to Mail is a much-awaited Flagged smart mailbox. One caveat: Flagged will show you only the flagged messages for mail that has been retrieved. So if Mail is set to show, say, your 50 most recent messages, you'll see the flagged items within those 50, unless you manually load more messages.

When I reviewed iOS 5, flagging didn't play well with my company Gmail account, which is configured via Microsoft Exchange; I could flag messages on iOS devices, but the flags would not show up in desktop clients or on the Web. That situation has changed but not really improved in iOS 6—now I don't even have the option to flag messages in that account at all.

A few other improvements make life easier. For example, at long last you can maintain mail signatures on a per-account basis; for those of us who have personal and work accounts, it's a godsend. And Apple has implemented a pull-to-refresh mechanism for Mail, which replaces the old Refresh button: Pull down on the screen, and you'll see a little blob that stretches out. When the blob reaches the breaking point, it snaps up and starts refreshing. The effect is vaguely unsettling, though I suppose it works all right.

Jungle Safari

As with Mail, Safari's improvements are fairly modest in iOS 6, though a couple of additions bring extra functionality. For starters, the Reading List gets an upgrade here: No longer just a way of shuttling links back and forth, it now also caches the links you add to it for offline reading. However, if my Reading List is any indication, publishers can opt not to make their content available for offline reading.

iCloud Tabs, one of my favorite iOS 6 features, brings up a list of every open tab in Safari on any iOS device or Mac that's logged in to your iCloud account. While iCloud Tabs is easily accessible in Safari on the Mac and iPad, it's squirreled away in the iPhone's browser.

Another great feature is Web Inspector. Flip it on and connect your iPad or iPhone to your Mac, and you can use the desktop browser's Web Inspector to tweak settings on the webpage you're looking at on your mobile device. It's impressive to see in action, and it will likely be a boon to Web developers who fret over compatibility with the latest devices.

Previously, uploading a picture to a website simply could not be done. Now, it's easy enough. Of course, rich HTML tools for editing, resizing, or cropping

4:19
Tuesday, 25 December

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pictures may or may not work correctly.

In the iPhone version of Safari, you can summon a full-screen mode in landscape. The back and forward buttons appear, when relevant, as translucent overlays. It's a pleasing feature, but given the small size of the screen (at least, pre–iPhone 5) I'm not sure how much real estate it buys you.

Face(book) the Music

If you've used iOS's integrated Twitter features at all, you'll find the new Facebook options pretty straightforward. In almost any place you can share something, you can now post it to Facebook.

Once you've set up Facebook, you have some options. You can choose which apps can access your Facebook account—by default, they include the App Store, Calendar, and Contacts, but other apps can request information as well, which it's up to you to allow or deny.

You can also choose to update your contact records with their respective information from Facebook. Be careful before choosing that option; for instance, you could end up with a Facebook Friends' Birthdays calendar, which may lead to many more alerts than you'd wanted about great-aunt Mildred's pending 87th. On the upside, that information should stay in sync, which means that if your friend changes their phone number, that change will be reflected in your Contacts, which can be handy.

What's in Store

The App Store, the iTunes Store, and the iBookstore all have gotten significant reimaginings with iOS 6. The new version of the App Store, for instance, strikes me as more attractive than the old one, though its best feature is background installation and updating.

The iTunes Store also looks flashier than its predecessor. Tapping on any album brings up a list of tracks, as well as tabs for reviews and related items that others have purchased. You can, of course, tap any track to preview it and, in a nice addition, that preview continues to play in the background even as you browse. The TV Shows, Movies, and Audiobooks sections all work similarly.

Sporting its own handsome makeover, the iBookstore has swipeable carousels and multiple tabs for details, reviews and ratings, and related items (subdivided into offerings from the same author as well as on similar topics). It also supports sharing books by Mail, Messages, Twitter, and Facebook, as well as copying the URL.

All three stores now work from inside other applications, too. If someone emails you a link to an app, tapping it pops up a panel from which you can read about the app and install it. If you receive a link to an album, TV show, or song, you can tap the link to preview the item and purchase it. And you can preview and buy books if you tap on a link to the iBookstore.

Bottom Line

There has yet to be a major version of iOS to which we haven't recommended updating, and iOS 6 is no exception. As always, Apple continues to demonstrate its methodology of adding features gradually and, for the most part, sensibly.

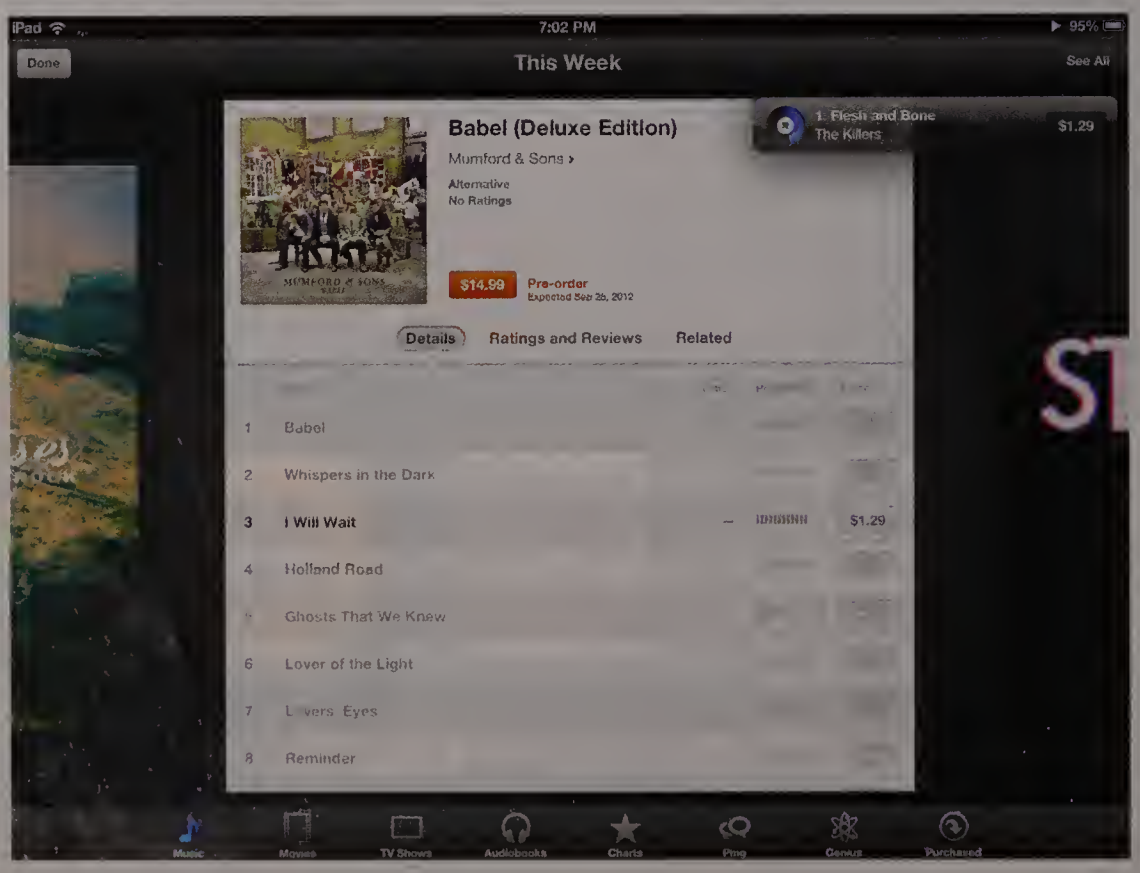
The Maps app alone, while rough in spots, is worth the upgrade. As much as Apple refuses to play the feature-checklist game, the addition of turn-by-turn directions knocks down an Android advantage.

iOS 6 showcases Apple's willingness to dive deeply into a feature and rebuild it from the ground up. And along the way, the company will tweak other apps, and add tons of features and capabilities.

iOS still has gaps, but it seems to have fewer every year. In the meantime Apple is trying to implement forward-looking features such as Passbook. Whether Passbook lands on the Home screen or is consigned to the dust heap of history, Apple is clearly not resting on its laurels with iOS 6.

Simply put, you have no reason not to grab iOS 6, and lots of reasons to jump aboard.

There has yet to be a major version of iOS to which we haven't recommended updating, and iOS 6 is no exception.



Simple Shopping The redesigned iTunes Store lets you easily preview and purchase songs and other media.

The iPad®'s were hung by the chimmney with care, in hopes that their...



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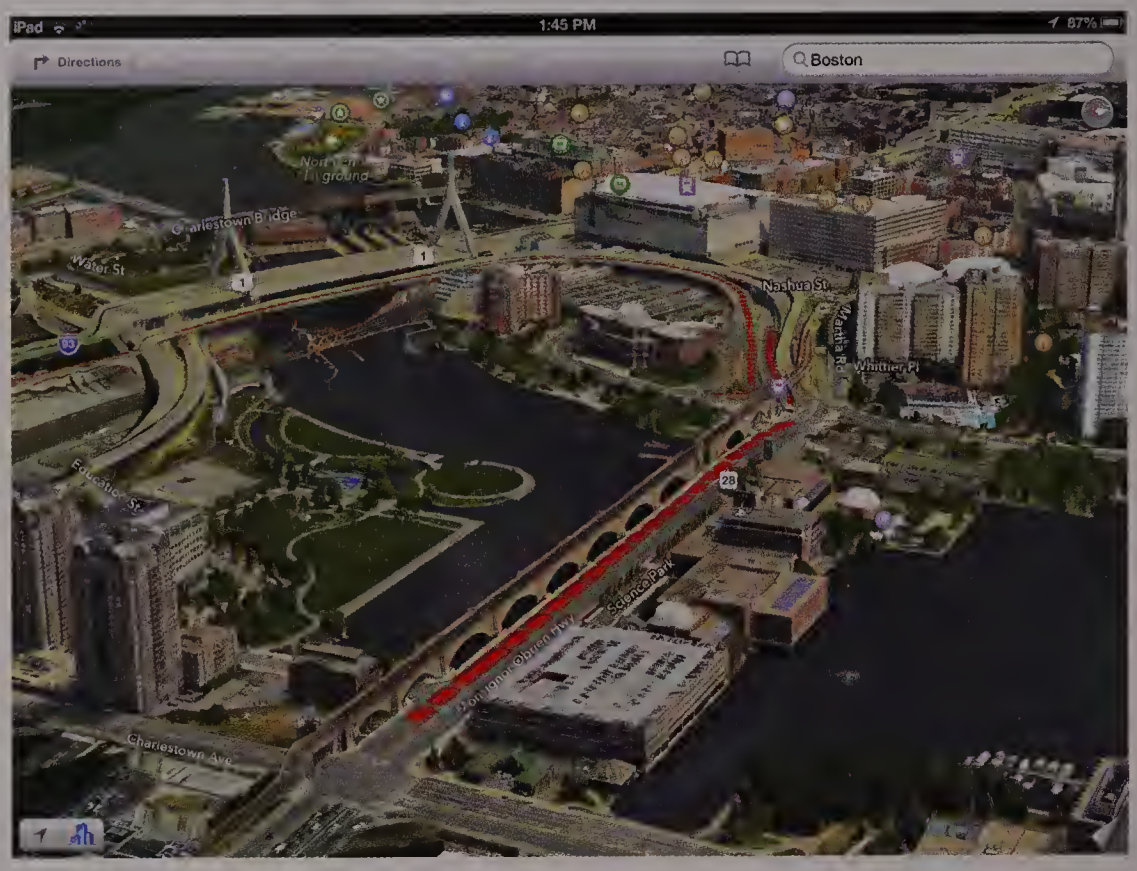
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Flying High When you are in a city, you can turn on Maps' 3D mode to see an angled street, hybrid, or satellite map.

Hands-On With iOS 6: Maps

BY SERENITY CALDWELL

When the iPhone debuted in 2007, Apple partnered with Google to deliver maps and directions. Five years later, Apple is now providing its own mapping software, revamping the app to bring you vector-based maps, turn-by-turn directions, 3D cities, Yelp integration, and live traffic and construction reports.

You'll no longer see an option for Street View, as that feature used Google's mapping data. And Apple has outsourced transit directions to third-party apps: When you search for bus or train travel, the Maps app pulls up a window showing the apps that can serve you in that region. On the iPad, you won't see Terrain mapping—just Standard, Hybrid, and Satellite views.

Apple's beautiful vector-based maps scale smoothly as you zoom in and out. You can see Yelp reviews and dining locations on the map, plus icons for parks, museums, state buildings, tourist attractions, subway stops, and more.

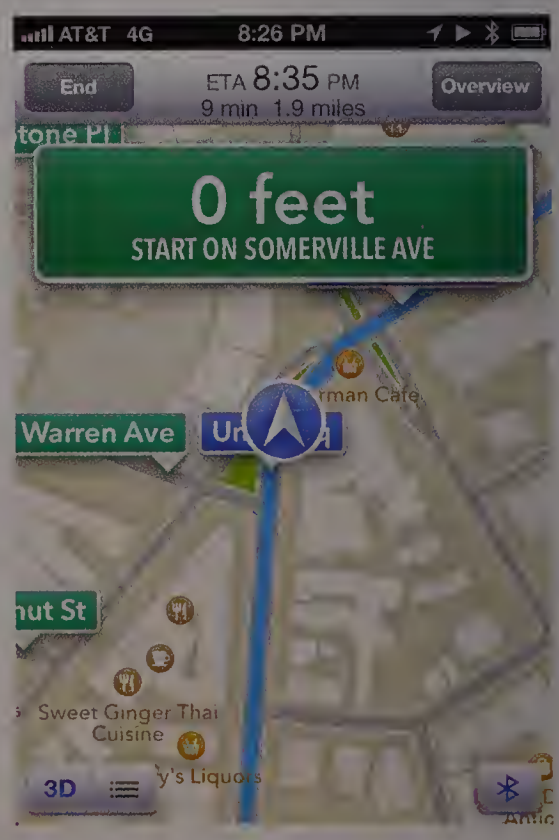
In addition to a location button, which can position you on the map, the app has a button for putting the view into 3D mode. The 3D button is inaccessible once you zoom out to a certain distance: You can really use it only when you're in a city.

Getting Directions

The Route button allows you to plot directions by car, on foot, or via public transit (through suggested third-party apps). The feature also shows a list of recent routes. As you enter a start location or end-point, suggestions for what you're typing replace those recent routes.

On an iPhone 4S or an iPad 2 or later, Maps now gives voice-directed turn-by-turn routes when you plot a driving route from your current location. When Maps' automatic turn-by-turn mode engages, you see an Overview screen, but once you press Start, Maps begins talking you through the directions. You can retreat to the overview or even exit the app, but Maps will continue to guide you on the route until you press the End button or arrive at your destination. You can enter 3D mode and view a list of all the turns in the route, as well; unfortunately, unlike with walking directions, you can't tap on a turn in the list to see it ahead of time. While it's in turn-by-turn mode, Maps displays directions even when your phone is locked, so you don't have to fiddle with buttons and passcodes to see your next turn.

To top off the new Maps app, Apple has introduced a new way to track traffic patterns, accidents, construction, and alerts. Using crowdsourced data, Apple aims to provide better information, plus ways to route you out of problem areas.



Turn Here On newer devices, Maps can talk you through your plotted route, turn by turn.

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Hands-On With iOS 6: Siri

BY LEX FRIEDMAN

Your favorite virtual assistant now knows a lot more than it ever did before. Siri in iOS 6 gains new functionality, simplifies some common tasks, and provides more useful results. And, for the first time, Siri in iOS 6 works on the iPad as well (third-generation or newer models).

Sports and Movies

You can ask Siri natural-language questions about football, basketball, baseball, soccer, or hockey, such as "What was the score of the last Eagles game?" Who's taller, Kobe Bryant or Michael Vick?" and "Is anyone on the Yankees injured?" Results (powered by Yahoo) display clearly with nice visuals; unfortunately, you can't tap results to get more details.

Siri has picked up some Hollywood knowledge as well. Powered by the movie-review site Rotten Tomatoes, Siri can now offer showtimes, along with trailers, reviews, and general filmography-style information. Among the kinds of queries Siri can now handle: "Where is *Spider-Man* playing?" "Is *My Cousin Vinny* a good movie?" and "What are Tom Hanks's best movies?" You can tap on results to view trailers, tap the Tomato Rating to read review snippets, tap on showtimes for more information, and tap on theaters to see them in the Maps app.

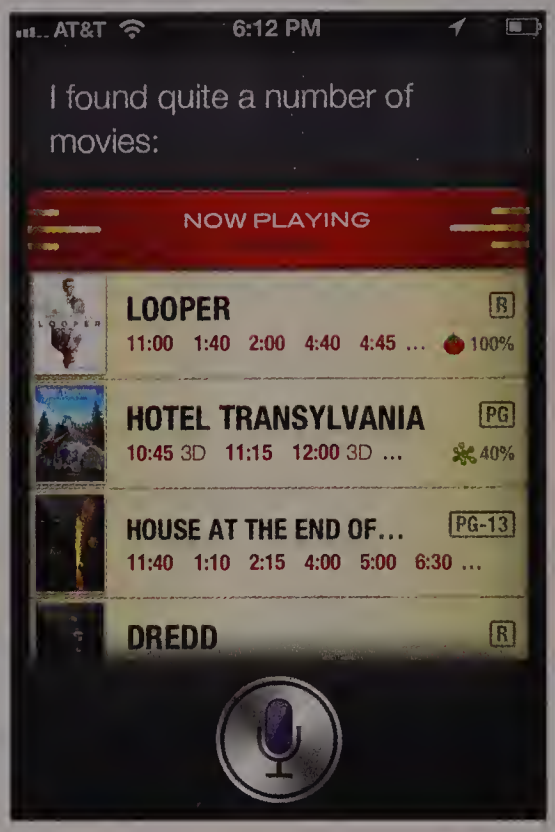
Restaurants

Siri was already capable of suggesting restaurants at its launch. But its answers have gone decidedly haute in iOS 6.

You can ask Siri to find restaurants by location, cuisine, price, outdoor seating, or a combination thereof, as in "Show me cheap Italian restaurants with outdoor seating near here."

You can then tap on a query result to see more details about the restaurant in question, including its price range, description, hours, phone number, Yelp review average, website, and address. And everything is tappable: For starters, tap on the restaurant's star rating to see review snippets. If you tap on a review snippet, the Yelp app opens to that review. (If you don't yet have the free Yelp app installed, Siri will prompt you to go grab it from the App Store.) And of course, tapping on the phone number places a call; tapping on the website launches it in Safari.

Siri in iOS 6 also knows about restaurants that support the OpenTable reservation system. You can say things like "Find me a table for six people for dinner tonight," and Siri will respond with a list of nearby, eligible restaurants. You can make the reservation from within Siri's interface. If you know that a specific restaurant supports OpenTable, you can request it by name, too: "Book me a table for tonight at 6 p.m. at Phil's Grill."



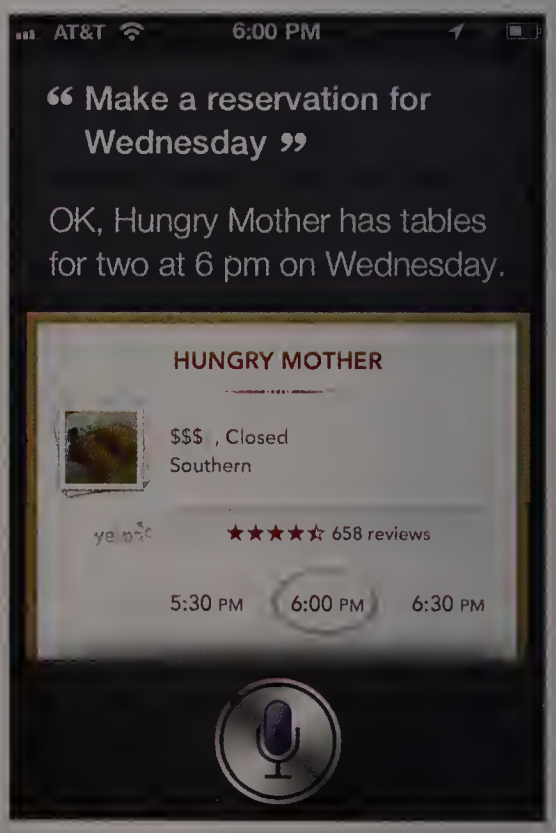
Movie Maven Siri can offer information about local showtimes, and it can answer general filmography queries too.

Other Stuff

In iOS 5, Siri often relied on cue words: For instance, If you dictated "iMessage Dan Moren are we still on for drinks tonight," Siri would understand that you wanted to compose a message to Dan, but it would still ask what you wanted that message to say; you had to stick a cue word such as "say" after your friend's name. In iOS 6, you don't need that extra verbiage. In fact, if you precisely recite the quote above, Siri will now handle it with aplomb (presuming that your iOS device has Dan Moren in its contacts).

Siri can now help you post to Twitter as well. Say "Tweet I'm checking out App.net," and Siri will handle the rest. The voice assistant lets you post to Facebook too: You can simply say "Write on my wall I love Mark Zuckerberg," "Post I'm wearing a hoodie to Facebook," or the like.

And you can launch apps with Siri now. Say "Launch Facebook," "Open Tweetbot," or "Play Tiny Wings," for instance. If your iPhone is locked with a passcode, Siri will prompt you to enter it before launching the app. You can ask Siri to close apps, too—but the only response will be that Siri can't actually do that.



Your Table Is Ready Through Siri, you can easily find local restaurants and make reservations through OpenTable.

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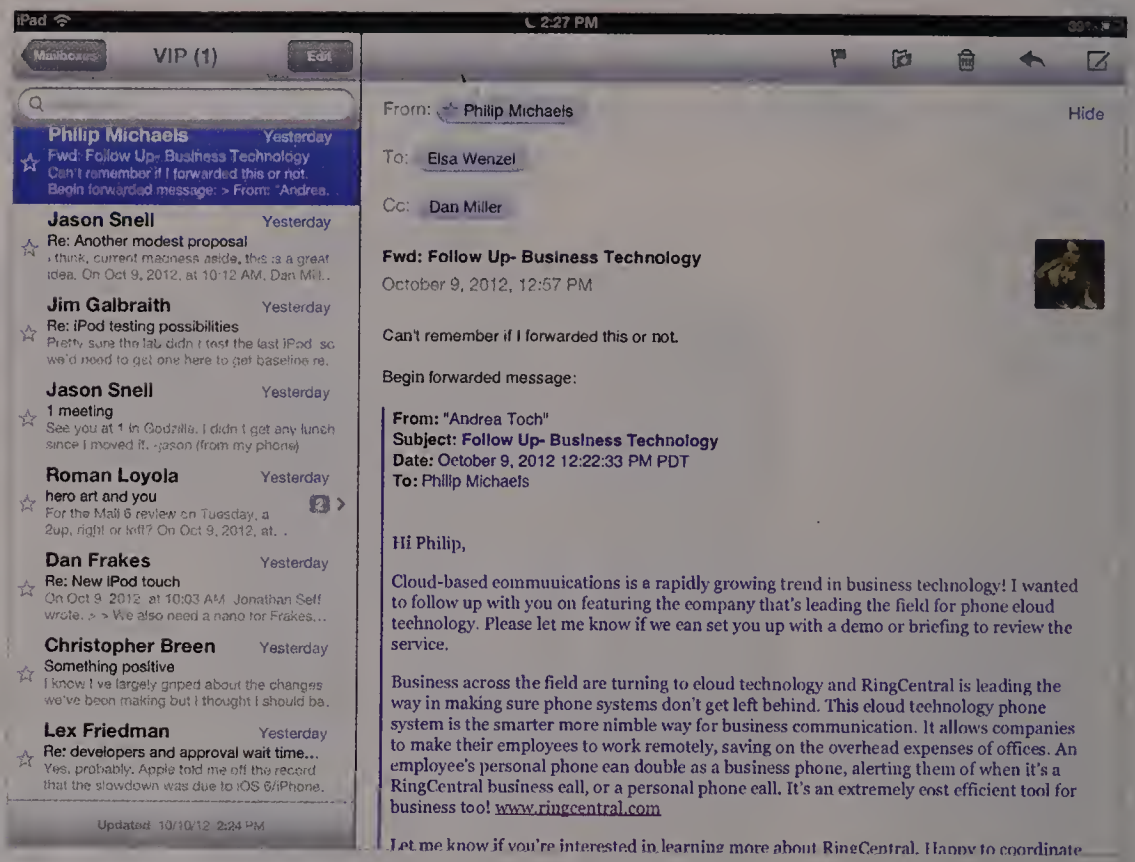
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Hands-On With iOS 6: Mail

BY DAN FRAKES

Although the Mail app didn't receive as many significant improvements in iOS 6 as it did in iOS 4 and iOS 5, the changes it did get should boost your productivity.

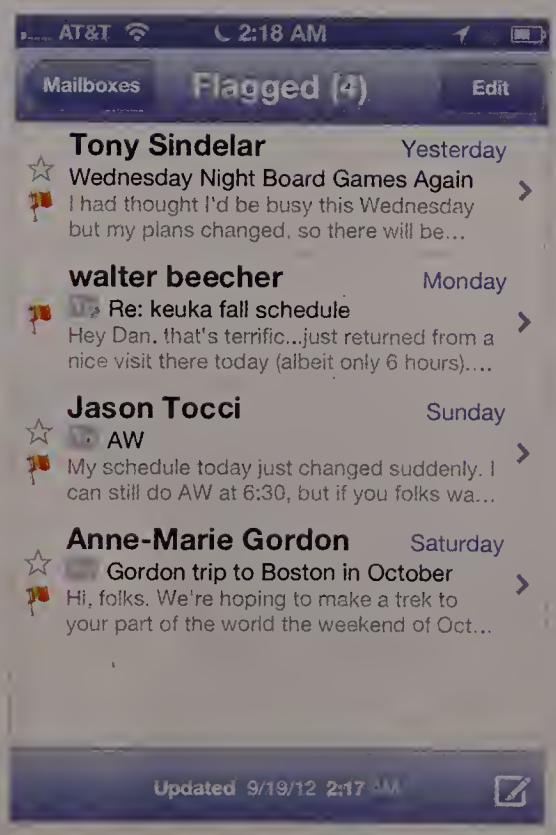


VIP Service In the VIP mailbox, you can see email from important contacts.

New Special Mailboxes

The new VIP and Flagged items in the top-level Mailboxes list are similar to Smart Mailboxes in OS X Mail, in that each gathers particular messages across your inboxes and shows them in one list.

The Flagged mailbox displays any message you've marked with Mail's flag feature located in any of your inboxes. (It doesn't show flagged messages you've filed into other mailboxes.) It lets you quickly see your most-important messages without having to scroll through all the other messages in your inboxes.



Flagged Mail The Mail app's new Flagged mailbox lets you see high-priority messages in one convenient list.

The VIP mailbox, which debuted in OS X Mail in Mountain Lion, gathers inbox messages from people you've designated as VIPs—your spouse, your boss, your bookie...er...financial advisor—so you won't overlook those messages in the daily flood of email. It syncs over iCloud, so if you add a VIP on your Mac, that person automatically becomes a VIP on your iPhone and iPad, and vice versa.

Don't like the VIP feature and wish it wasn't cluttering up your Mailboxes list? Unfortunately, you can't get rid of it, but you can move it elsewhere in the list.

New Notifications

In iOS 5, one set of notification settings covered all incoming email. In iOS 6, you get per-account notification settings, and separate options for VIP messages. For any account, or the VIP item, you get the standard Notification Center options: alert style, app-icon badge, whether to display a message preview, and whether to view notifications on your device's lock screen. You can enable all options for, say, your work account, but only some for your personal account.

Easier Media Attachments

In iOS 6, you can finally add photos and videos from within a message. When you're composing email, tap-hold or double-tap in an empty area, and in the pop-over that appears, tap the right-facing arrow. Tap *Insert Photo or Video*; a Photos-app-like media browser appears. Select an album, tap any image or video to preview it, and tap *Choose* to attach it. Repeat as needed. (I've successfully added 12 images to a single message; I have yet to discover a limit.) When you tap *Send*, you see a screen that asks whether to scale the images down to reduce the size of the message.

Per-Account Signatures

Mail now lets you set a different signature for each of your accounts. Go to *Settings → Mail, Contacts, Calendars → Signatures*, and choose *Per Account*. Type or paste your preferred signatures, and Mail will automatically append, to each outgoing email message, the appropriate signature for the sending account.



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Hands-On With iOS 6:

Safari

BY DAN FRAKES

Safari for iOS was already perhaps the best mobile browser around. In iOS 6, however, Apple has added a few features that provide much-requested functionality.

iCloud Tabs: This feature syncs open tabs among your Macs and iOS devices configured with the same iCloud account. Instead of emailing URLs to yourself, you can view, on your current device, any tab that's open on any of your synced devices.

On your iPad, tap the iCloud icon in the Safari toolbar to get a list of the tabs. On your iPhone, tap the *Bookmarks* button and select *iCloud Tabs*. Tabs are grouped by device, and each entry has the name of the webpage and its URL; tap any item in the list to open it on your device.

On your Mac, access synced tabs by clicking the iCloud Tabs button in Safari's toolbar. Tabs are grouped by device, but they don't display each webpage's URL.

Offline Reading List: In iOS 6, whenever you add an article to your Reading List, the entire story—text, images, layout, you name it—saves to your device and syncs to your other iCloud-enabled devices and computers. (Note that the offline feature is available only on the iPhone 4 or later and the iPad 2 or later.)

To add the currently viewed article to your Reading List in iOS, tap Safari's Share button and then tap *Add To Reading List*. To add a link on the current page, tap and hold the link until a menu appears, and then tap *Add To Reading List* there.

Media uploading: When you're using a website that allows uploading of photos or videos, tap the *Upload* or *Choose File* button to get the option to choose an existing item from your Photos library, or to take a photo or video using your device's camera. For the former, just navigate to an album and tap an image. For the latter, after you take the photo or video, tap the *Use* button to upload it.

Full-screen mode: New to the iPhone and iPod touch is full-screen mode (for landscape orientation only). The mode removes Safari's address bar and toolbar, giving the current webpage a good amount of additional space. Semitransparent buttons for forward, back, and exiting the mode appear at the bottom.

Hands-On With iOS 6:

Music

BY CHRISTOPHER BREEN



From all appearances, iOS 6's Music app has lost more than it has gained. The single new element is a grayer interface in the iPhone and iPod touch version. In the "lost" column are any references to the defunct Ping social-networking service, and the capability to download single iCloud Match tracks. And podcasts and iTunes U content appear to be missing.

But "appear" is the key word. If you've installed the Podcasts and iTunes U apps, they'll have that content. If you haven't installed those apps and you sync your podcasts and iTunes U content within iTunes to your device, you can play that content within the Music app; just tap *More* to see the entries. However, in iOS 6 such items are not downloadable from the iTunes Store app; you must install the Podcasts and iTunes U apps to directly download this content from Apple.

As for cosmetic changes, aside from the gray and silver hues, a few icons have been rearranged, and icons are generally smaller. More notable is the absence of buttons to download single iCloud Match tracks. You can still download all songs from a playlist, an album, or an artist. (You can download individual songs you've bought from the iTunes Store via the iTunes app.) This change could prove inconvenient for users who prefer to download tracks on the go via a cellular connection, as it now compels you to download an album's worth of tracks when you may want only one.

Don't say we didn't warn you.



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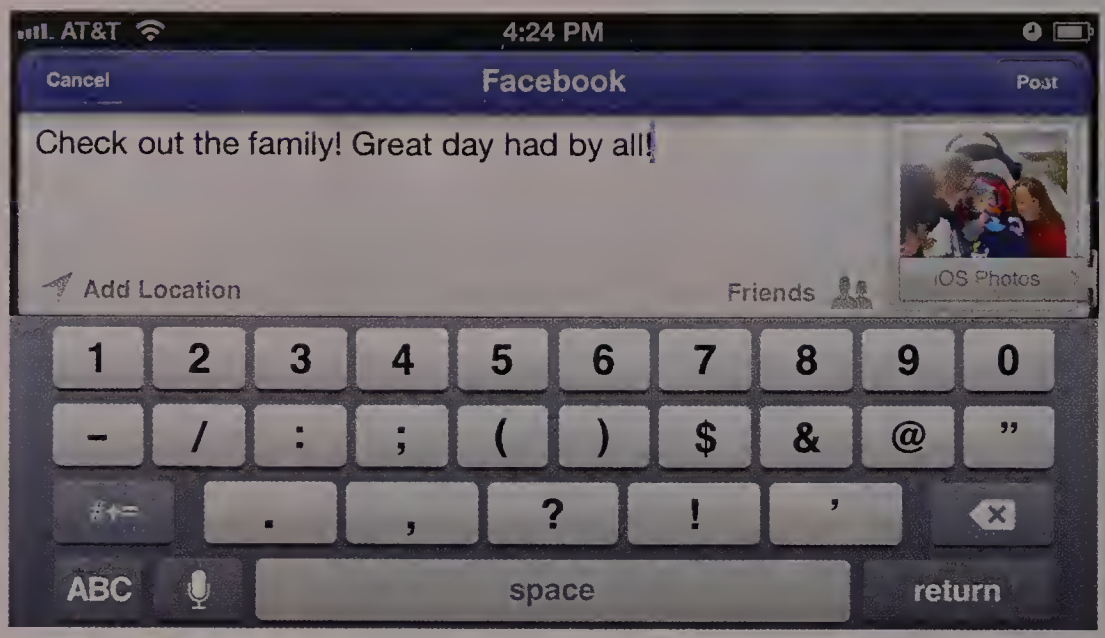
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Hands-On With iOS 6:

Social and Sharing

BY LEX FRIEDMAN

Facebook integration comes to iOS 6, and it looks an awful lot like iOS 5's Twitter integration. Anywhere iOS used to let you send a tweet, you can now post to Facebook as well. Also new to iOS 6 is the way the interface looks when you share photos, links, and other data.

Facebook: You can share photos within the Camera and Photos apps, share your location within Maps, send updates from Game Center, and post status updates with Siri.

To share photos from the Camera or Photos app, tap the *Share* button, and then tap *Facebook*. The sheet that appears will superimpose an album name atop the photo, which is attached to the typing area. Tap the photo to choose a different Facebook album for it. You can tap to choose which audience to share your photo with; the available options will reflect your Facebook privacy settings. You can also choose whether to include location information for shared photos.

Sharing your current location in Maps works pretty much the same way. You tap a pin, tap the blue arrow, and tap the *Share Location* button. You then choose *Facebook* to bring up the sharing sheet.

You can also save your Facebook login credentials in iOS 6's Settings app, too. In theory, other third-party apps that need access to those credentials could then ask for permission to use your Facebook account, without your needing to log in.

Social sharing: Tap to share content in iOS 6, and you'll see a new array of icons. As sharing options continue to proliferate, this new view seems better suited than iOS 5's approach—an ever-longer scrolling list—to managing them all.

You'll see familiar icons for actions related directly to core apps, such as Mail, Message, Facebook, and Twitter. Other options (Print, Copy, Use As Wallpaper) will instead show grayscale icons related to the actions that they represent.

Simply tap on any of those buttons to trigger the related action.

Hands-On With the Updated

Find My Friends & Find My iPhone

BY SERENITY CALDWELL

Apple's two location-based iOS apps have received updates. Find My Friends, which lets you know where your pals are, now offers location geofencing so that you can find out when friends leave or arrive at a certain place. You access the feature by tapping on a contact and tapping the *Notify Me* button; then, you choose whether the alert should fire when they enter or exit, and at what address. It's surprisingly useful for timing meetups or carpool rides. It works only on contacts who have upgraded to the latest version of Find My Friends and run iOS 5 or later.

You can also flip this feature around and notify others of your location—either currently, or when you leave or arrive somewhere. And you can see when a friend has put a notification on you, though you can't remove it. (You can hide your location from followers temporarily by enabling the switch in the Me tab.) The app also has a Temporary Event feature, which allows you to set geofences and track location for a limited amount of time.

The updated Find My iPhone device tracker has a new Lost Mode. Enable Lost Mode on your gadget, and the device will lock itself and display a phone number and a message, along with a Call button. Lost Mode will make a map of the phone's movements, and you can see your device's current battery level. (The app can send you email updates as well.)

Once you've unlocked your phone or disabled Lost Mode, it returns to its normal state and stops tracking movement.

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Macworld's 2012

GEAR GUIDE

Our picks for speakers, headphones, and iPad cases, plus how to buy a digital camera.









For as long as any of us can remember, *Macworld* has run a Gear Guide in every December issue. Traditionally, those articles have involved scouring the Web and local stores, looking for the coolest (and sometimes the wackiest) new digital gadgets we could find, all of which could make great presents for you or someone else.

This year's guide is different. A few months ago, working with our colleagues at *PCWorld,* we launched a new website called TechHive (techhive.com). From now on, that's where you'll find all of our online coverage of cameras, home entertainment hardware, and other things that don't care what kind of computer you use, Mac or PC.

To commemorate that new site, we asked TechHive's resident experts for their top picks among different kinds of headphones, speakers, and iPad cases, plus general buying advice for digital cameras—all products that are pretty popular this time of year. What this year's guide might have lost in wacky, we hope it makes up in useful.

Headphones

By Matt Ward



Bluetooth Headphones

Most Bluetooth headphones are small, portable models. But Harman/Kardon's $250 **BT** (macworld.com/7977) incorporates Bluetooth technology in a full-size, premium headphone model that seals out external noise. The BT charges via USB and offers 12 hours of playback, but unlike with most Bluetooth headphones, if the battery dies while you're away from power, you can plug in the included headphone cable and use the BT as a set of traditional wired headphones. The earpieces include playback and volume buttons, along with a microphone for phone calls, and the earpieces are covered in detachable—and, thus, replaceable—soft-leather earpads to help you get the perfect fit. The BT folds up and stores in the included carrying case.

While in-ear-canal headphones and canalbuds tend to provide a good fit, and good sound quality for the money, they also block substantial outside noise. However, finding *wireless* in-ear headphones is rare. Phiaton's $99 PS 210 BTNC (macworld.com/7978) offers Bluetooth for wireless compatibility with both Macs and iOS devices. The 210's Bluetooth circuitry and battery are housed in a small module you can clip to your shirt or belt, or wear on the included lanyard; the battery charges via USB. The module sports a microphone and playback/call/volume controls, too. You can swap the module with a standard cable for a traditional wired connection. The 210 also has active noise canceling, a feature rarely seen in in-ear canal headphones.



« IN-EAR HEADPHONES

Ultimate Ears helped popularize in-ear headphones, and the brand, now owned by Logitech, still makes for some of the best headphones around. The TripleFi 10, long the company's high-end universal-fit model, was one of the first in-ear headphones to use three drivers (miniature speakers) per earpiece: for bass, midrange, and high frequencies. These days the TripleFi 10 has been replaced by Logitech's $400 **UE 900** (macworld.com/7975), which doubles down on bass: It uses *two* drivers to produce low frequencies. The UE 900 also continues Ultimate Ears' tradition of using replaceable headphone cords, letting you easily replace the most vulnerable component. The UE 900 includes a plain cable, a cable with a three-button inline remote/microphone, an extensive fit kit, a hard case, a carrying pouch, and various adapters.

EARBUDS

In the quest to design earbuds that fit a range of ear shapes, Urbanears offers the **Medis Plus** earbuds ($60; macworld.com/7974), whose EarClick design features a silicone pad—assorted sizes are included—that attaches to the top of each earpiece to brace it against the ear. The result is a secure fit (even when you're working out) and a more-consistent acoustic environment. The Medis Plus also has a three-button inline remote/microphone and a high-quality, cloth-wrapped cord. The Medis Plus comes in black and "tomato" red.



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Headphones

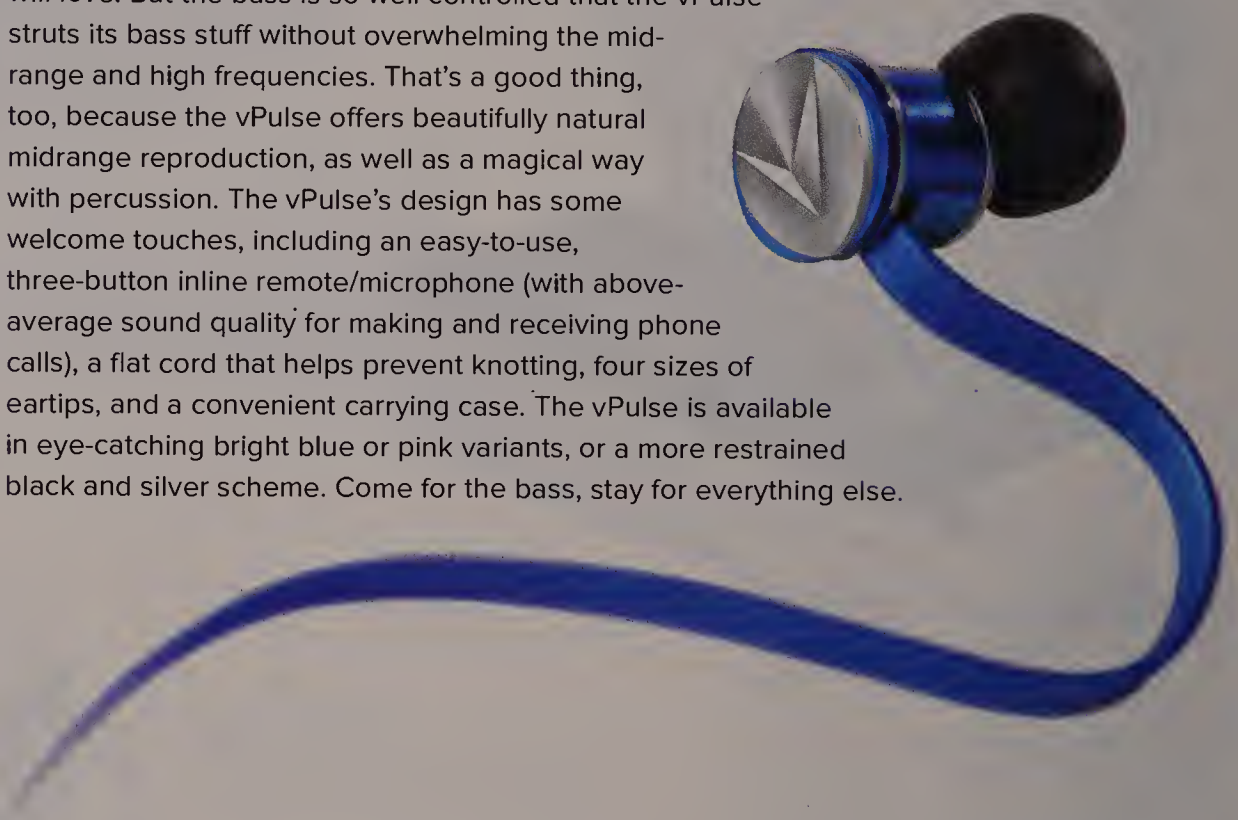


Budget Headphones

It's tough to find good, full-size headphones on the cheap. MonoPrice—yes, the company that sells bargain-basement cables and connectors—offers the rare win with its **8323** headphones (macworld.com/7979). The headset looks and feels a bit plasticky, and it lacks features such as an inline remote/microphone, but it offers good sound and sturdy build quality for $23. The earpieces fit around your ears to keep noise out (and music in). You also get thick, faux-leather padding; earpieces that swivel 90 degrees; and a removable cable plus a thinner, more totable 11.5-foot cable.

BASS SPECIALISTS

Velodyne has long been known for its high-end subwoofers for home-stereo and theater systems. After an encounter with subpar bass in a pricey pair of in-ear headphones, founder David Hall decided it was time to bring the company's expertise to bear on headphones. In keeping with Velodyne's strengths, the $99 **vPulse** (macworld.com/7980; see our review on page 98) features impressively deep, clean, and powerful bass that fans of hip-hop, electronic, and dance music will love. But the bass is so well controlled that the vPulse struts its bass stuff without overwhelming the midrange and high frequencies. That's a good thing, too, because the vPulse offers beautifully natural midrange reproduction, as well as a magical way with percussion. The vPulse's design has some welcome touches, including an easy-to-use, three-button inline remote/microphone (with above-average sound quality for making and receiving phone calls), a flat cord that helps prevent knotting, four sizes of eartips, and a convenient carrying case. The vPulse is available in eye-catching bright blue or pink variants, or a more restrained black and silver scheme. Come for the bass, stay for everything else.





Over-the-Ear Headphones

V-moda started out making premium earbuds, nearly a decade ago. But the company was founded by a DJ with audiophile aspirations, and that influence is apparent in the **Crossfade M-80** (macworld.com/7976), a $230 set of rugged, over-the-ear headphones that offer outstanding sound quality and beautiful design (especially the Apple-inspired white/silver model) in a compact package. The company says the M-80 is designed for the "modern audiophile," which V-moda describes as someone interested in high-end audio that's accurate but has a little extra bass response. The M-80's 40mm drivers (the largest you'll find in an over-the-ear headphone, the company says) produce impressive bass that doesn't overwhelm the rest of the audio spectrum. Memory-foam earpads offer comfort and good noise isolation; the flexible headband and metal components stand up to abuse; and the package has two removable cables (including one with an Apple-style remote/mic) and a hard-shell carrying case. Another nice touch: The metal plate on each earpiece is replaceable, so you can customize your look.

Sphero

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There is something incredibly fun about driving a ball from your smartphone. Now with 20 free apps, including multi-player tabletop, multi-ball TAG and arcade-style controller games, this holiday season is the perfect time to check out all that this sophisticated little gadget has to offer.



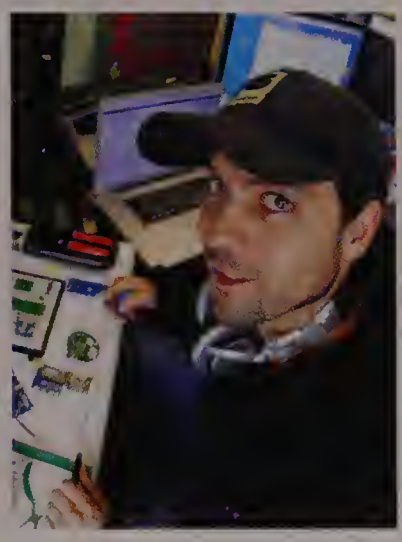
Sphero Exile

Sphero also doubles as an advanced game controller when you hold it in your hand. Addicting games like Sphero Exile and Chromo allow for enhanced gameplay. Enjoy these games and more with 360˚ of movement and unparalleled control – all without obstructing the screen with your fingers.

GEAR WISHLIST

We asked co-founders Ian and Adam "What items are on your wishlist?"

Ian: My holiday wishlist includes a Samsung 75" LED TV, AppleTV, a Razer Dealth Stalker Ultimate keyboard and world peace.

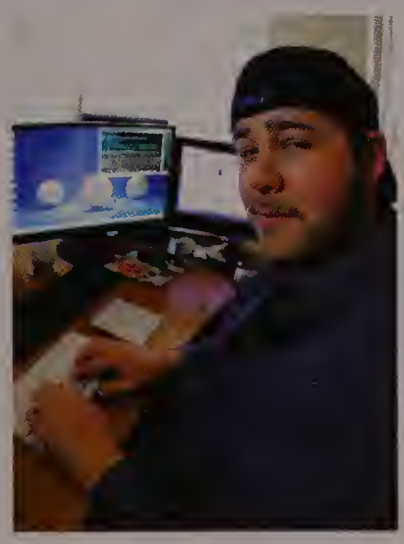


Ian Berstein: Co-Founder & CTO

Adam: My holiday wishlist includes a raspberry Pi, the LEGO Death Star, Call of Duty: Black Opps II, more bots for my Botnet and for the robot revolution to begin.

FAVE GEAR

What is your favorite Mac gear?



Adam Wilson: Co-Founder & Chief Software Architect

Ian: My favorite Mac gear includes my BIG JAMBOX, Bose QC 15, Gelaskins iPhone cover, and my MacBook Air.

Adam: My favorite Mac equipment includes my iPhone 5, Apple LED Cinema display, MacBook Air, and HDMI cables.

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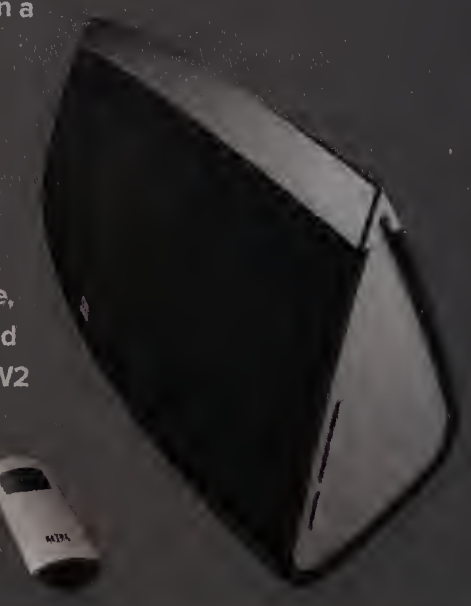
Bluetooth Speakers

I liked the original Jambox—a tiny but powerful rubbery Bluetooth speaker from Jawbone. And I'm a big fan of its sibling, the $300 **Big Jambox** (macworld.com/a/1166570), too. At 3 pounds, the Big Jambox remains portable enough to tote around, and its 15 hours of battery life makes doing so simple. Of course, a portable Bluetooth speaker with impressive battery life really shines only if its audio quality impresses too. And boy, the Big Jambox passes that test: The speaker can get plenty loud—a feat for a speaker this light and portable. Even better, its crisp audio offers a solid balance between lows and highs, with impressive bass performance. Like its predecessor, the Big Jambox supports Jawbone's LiveAudio software, which can simulate three-dimensional sound that will literally have you looking behind you to see where that guitar lick is coming from. Sure, the 3D effect will cost you some volume, but if you're listening solo, it's an acoustic treat. If your desired feature checklist includes Bluetooth, portability, great battery life, and a very cool look, your search is over: Get the Big Jambox.

AirPlay Speakers

The $500 **InAir 5000** (macworld.com/a/1166126) has the stylish looks you'd expect of an Altec Lansing speaker. While you can use its auxiliary input, and even plug in an iPod or iPhone via USB, the real draw is its integrated AirPlay support. You can connect the InAir to your home network over Wi-Fi or ethernet. The unit works great with AirPlay, even wirelessly; unless your network is overloaded, don't expect dropouts or other audio issues. Instead, expect high-quality audio with a satisfying bass kick. And the InAir is large enough that you'll hear a comfortably wide stereo image when you're seated in front of it.

The iHome iW2 ($200; macworld.com/a/1166639) is the entry-level AirPlay receiver to beat. The 4.6-pound speaker measures 10.5 by 5.8 by 3.0 inches, and is wrapped in a black-mesh cloth. You can connect an iPod or iPhone via USB to a port on the back, or you can connect the speaker to your network over Wi-Fi or wired ethernet. The iW2's output won't wow an audiophile, but it's certainly quite good—and perfect for a small space. The iW2 can't work off battery power or put itself to sleep, but otherwise it's a satisfying small AirPlay receiver.



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Speakers

DOCK SPEAKERS

The $500 JBL **OnBeat Xtreme** (techhive.com/a/1166731) is a futuristic-looking speaker that can work in a number of ways: You can use it as an iPod or iPhone dock (for devices with the original 30-pin dock connector), an iPad dock, or a Bluetooth speaker. And you can connect using the auxiliary input, too. If you do use it with an iPad, you can even leave your tablet's skin or Smart Cover on the device. Once your device is docked in the Xtreme, you can rotate it between portrait and landscape modes as needed. If you've connected



an iPhone, you can use the Xtreme as a speakerphone, a task at which it performs passably. When you're listening to music, the Xtreme does not cut corners: It offers excellent audio, with crisp, clear mid- and upper-range audio, and bass that borders on astonishing for a speaker of this size. Steer clear if your goal is to pop iPhones and iPads in and out interchangeably, since doing so requires some reconfiguration of the speaker's stand. But if you have a single device you'd like to use with the Xtreme, the audio won't disappoint you.



Rugged Speakers

Jabra has jumped on the "small, rugged, Bluetooth speaker" bandwagon in a clever way with the new Solemate. Like competing products, the $200 **Solemate** (macworld.com/7981) provides surprisingly big sound in a sturdy and compact—though hefty—package that fits in your hand. It offers Bluetooth connectivity, so it works with both iOS devices and Macs, and it has analog- and USB-audio inputs for connecting other devices; it can also serve as a speakerphone, and it uses voice feedback for pairing and battery checks. But it's the unique design that makes the Solemate stand out. The speaker is dust- and splash-resistant, with a thick, rubber, shoe-tread sole that shields the speaker and keeps it in place. An included play-through bag provides added protection against sand and sun when you're on the go, and Jabra bundles an auxiliary-audio cable that looks like a shoestring and stores in the sole. Inside are two tweeters, one woofer, and a rear-facing bass radiator. Jabra says the Solemate can play for up to 8 hours or last for up to 40 hours of standby time.

Budget Computer Speakers

You can find plenty of big, pricey speakers that you can connect to your Mac to get better audio. But if you're trying to save money and desk space, Energy's $100 **Power EM-2.1** (macworld.com/7982) offers good sound for a reasonable price—and in a tiny package. As its name implies, the Power EM-2.1 is a 2.1 system, which means it uses left and right satellites for high frequencies and a single, larger speaker driver for lower frequencies. Each satellite is just 2.0 inches by 4.5 inches, and the woofer is just 5.2 inches by 5.8 inches by 4.7 inches—the woofer box takes up about as much space on your desk as a CD jewel case. In fact, the EM-2.1's woofer box, which hosts the system's volume and bass-level controls, is one of the few designed to sit on your desk rather than under it. The EM-2.1 won't match the output of a larger speaker system, but it sounds good for its size, it looks nice, and it's regularly available for less than $60 at street prices.



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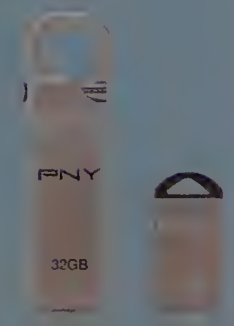
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Cameras

By Tim Moynihan



DIGITAL SLR



Digital SLRs (DSLRs) such as the Canon **EOS 6D** (body only, $2100; macworld.com/a/2009991) offer the best photo quality and controls of any digital camera. Their large sensors, combined with high-quality interchangeable lenses, produce good performance in low light, and lightning-quick shutter speeds. DSLRs also let you frame shots using a through-the-lens optical viewfinder. While DSLRs can be intimidating for novices, most current models also have point-and-shoot-like features.

Mirrorless Interchangeable Lens »

If you can live without an optical viewfinder, interchangeable-lens cameras, such as the $1000 Sony **Alpha NEX-6** (techhive.com/a/2000494), offer much of what a DSLR does but in a more-compact body. They provide better image and video quality than your average point-and-shoot, faster shutter-response times, swappable lenses, and manual controls. Many of them also have APS-C sensors, which are the same size as the ones you'll find in a DSLR. The lack of an optical viewfinder is a by-product of these cameras' smaller size: By eliminating the somewhat large mirror box that lets you frame your shot through the lens, manufacturers are able to reduce the thickness of these interchangeable-lens cameras. This is a growing category, and there are still a lot of variations in it. Some mirrorless cameras, such as the Olympus PEN E-PM1 and the Panasonic Lumix GF5, aren't much bigger than a point-and-shoot, and have simple interfaces. Other mirrorless cameras, such as the Fujifilm X-Pro1, the Olympus OM-D EM-5, and the Panasonic Lumix GX1, are intended to be more like DSLR replacements, with fine-grained controls.

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Cameras



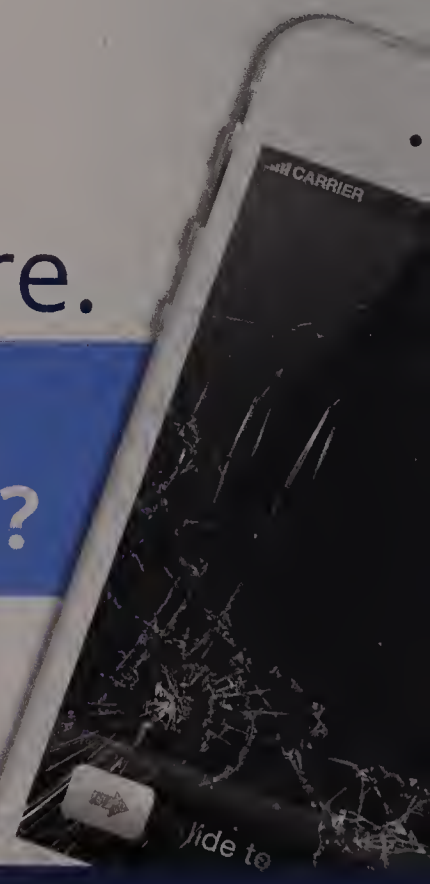
PREMIUM COMPACT

Advanced point-and-shoots, such as the $330 Nikon **Coolpix P310** (macworld.com/a/1168231), often serve as a pro photographer's secondary camera. Such cameras usually have larger sensors than your average fixed-lens model. They always have manual controls for specifying the aperture, shutter, and ISO settings, enabling you to fine-tune your shot more granularly than you can with a basic point-and-shoot. These cameras' lenses tend to have wider maximum apertures than most fixed-lens cameras, meaning that you can shoot at faster shutter speeds, get good shots in low light, and achieve shallow depth-of-field effects. The latest crop of premium compacts, such as the Panasonic Lumix LX7 and the Samsung EX2F, offer f/1.4 apertures at the wide-angle end of the zoom; you don't get the zoom range of a pocket megazoom, but the image quality is often better. While a pocket-megazoom camera is our pick for zoom-range versatility, an advanced point-and-shoot is good for wide-angle, portrait, and macro shots.



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Cameras

MEGAZOOM



Megazooms (such as Panasonic's $580 **FZ150**; macworld.com/7983) don't provide the lens-swapping versatility of a DSLR or a compact interchangeable-lens model, but they are the most versatile fixed-lens cameras when it comes to zoom range. They're called *megazooms* because their lenses serve up a whopping amount of optical zoom (up to 42X), providing impressive wide-angle coverage and telephoto reach.

Pocket Megazoom



If you want a flexible and portable camera that also gives you the long reach of a megazoom camera's zoom lens, such as the one on the $350 Canon **PowerShot SX260** (macworld.com/a/1167127), a pocket megazoom is your best option. A big step up from the average smartphone camera, these compact cameras have optical zoom ranges of around 20X, and many of them are small enough to slip into a pants pocket. They're great cameras for vacation photos or for everyday use, thanks to their versatile zoom range and portability. In fact, many newer pocket megazooms feature built-in GPS capabilities, which is a testament to the fact that many people use them while traveling. They're small enough to take anywhere, and their optical-zoom range can cover anything from wide-angle scenery to individual portrait shots to faraway shots of sporting events or wildlife. Not all pocket-megazoom cameras have manual controls such as aperture and shutter priority, so be sure to check the specs if you'd like those features. Such cameras normally have very good optical image stabilization to bolster their high-zoom lenses.





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BASIC POINT-AND-SHOOT

A basic point-and-shoot camera (like the $300 **Canon PowerShot SX230 HS**; macworld.com/a/1160189) is a no-brainer pick for anyone who just wants an affordable camera to keep on hand at all times; all of the newer ones shoot high-definition video, and their scene-mode selections cover a lot of bases. In-camera automation is getting better and better, meaning that these cameras basically drive themselves; they don't offer manual controls that help you fine-tune your photos, but basic point-and-shoots normally have very good Auto modes and scene selections that choose the appropriate in-camera settings for your shot. This is one area in which the megapixel war continues to rage: You'll see a lot of entry-level cameras with sub-$200 prices and 16-megapixel sensors. Unfortunately, these models typically have small sensors, so don't fall into the trap of buying an inexpensive camera with a very high megapixel count. Packing more megapixels into a small sensor usually leads to image noise, especially when you shoot at higher ISO settings.



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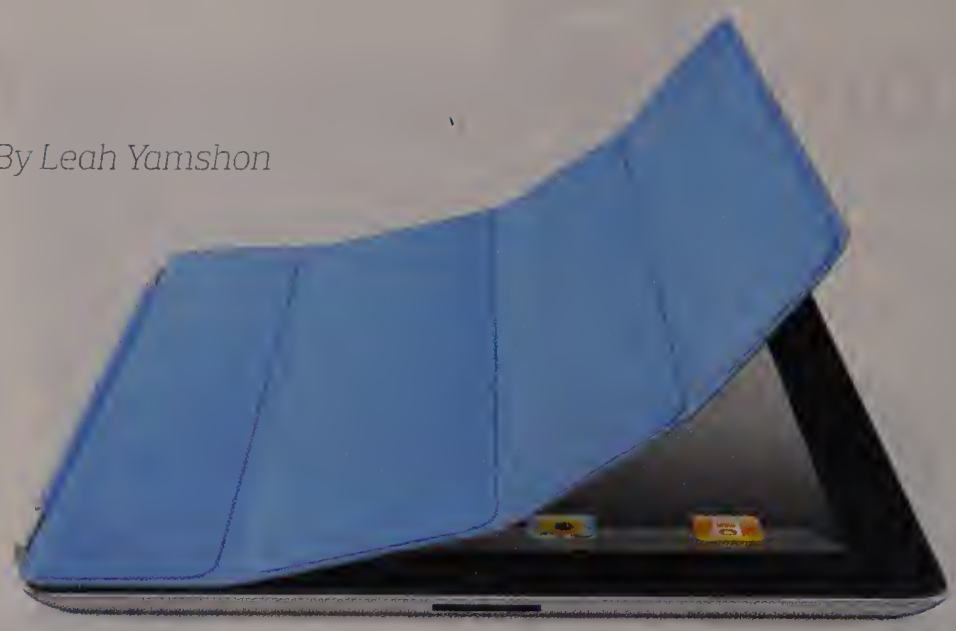
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iPad Cases

By Leah Yamshon



Shells & Skins

Shells and skins protect your iPad's back and sides but still let you use the tablet. PPCTech's **$55 SlateShield** (slateshield.com) is a plastic shell with a rotating handle that works as a grip or a stand. The shell extends over the iPad's edges to protect it in a face-down drop.



APPLE SMART COVER AND SMART CASE

Apple makes two protectors for the iPad 2 and third-generation iPad: the **Smart Cover** and the **Smart Case**. The $39 Smart Cover (macworld.com/a/1158447) guards just the iPad's screen, but, in a clever touch, its embedded magnets neatly snap the cover's hinge to the edge of the iPad; plus, opening and closing the cover automatically wakes and sleeps the iPad, respectively. It also rolls up into a typing stand or viewing stand. The $49 polyurethane Smart Case (macworld.com/8010) adds a soft-shell cover to shield the back of the iPad, and includes a connected Smart Cover. Non-Apple options include Miniot's $89 MK2 for the second- and third-generation iPads (macworld.com/7985) and Speck's $25 SmartShell for iPad 2 (macworld.com/7986).

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iPad Cases



Sleeves

Sleeve cases protect your iPad inside another bag. Some are simple slide-in designs, and others sport a zipper or flap closure for extra security. Incase's zippered $35 **Origami Sleeve** (macworld.com/8008) has a faux-fur interior to cushion your iPad's screen, and doubles as a stand to rest your iPad against.

Folio Cases

Folio cases offer all-over protection for your iPad but flip open for easy access to the screen. Portenzo's $60 **Classic BookCase for iPad** (macworld.com/a/1157899) sports a Moleskine-style exterior and a bamboo-framed interior. It keeps your iPad safe and lets you prop the tablet up in different viewing angles. Other recommendations include TwelveSouth's $80 BookBook Volume 2 (macworld.com/a/1167681), SGP's $92 Folio.S (macworld.com/a/1167607), and STM's $40 Skinny 3 (macworld.com/7988).



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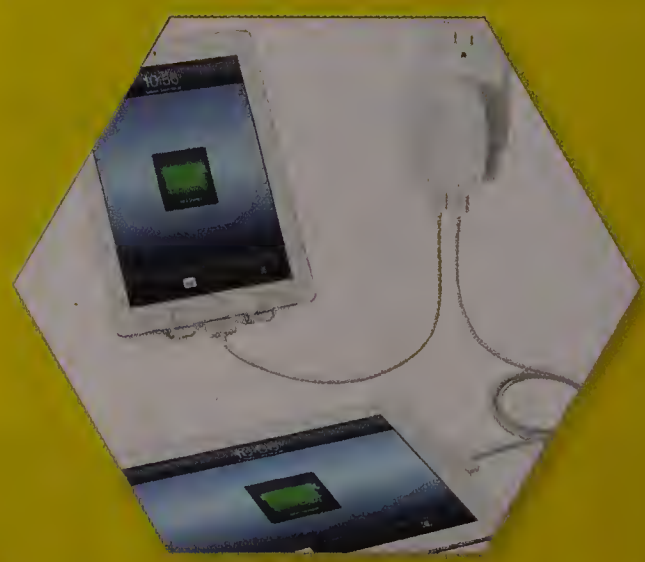


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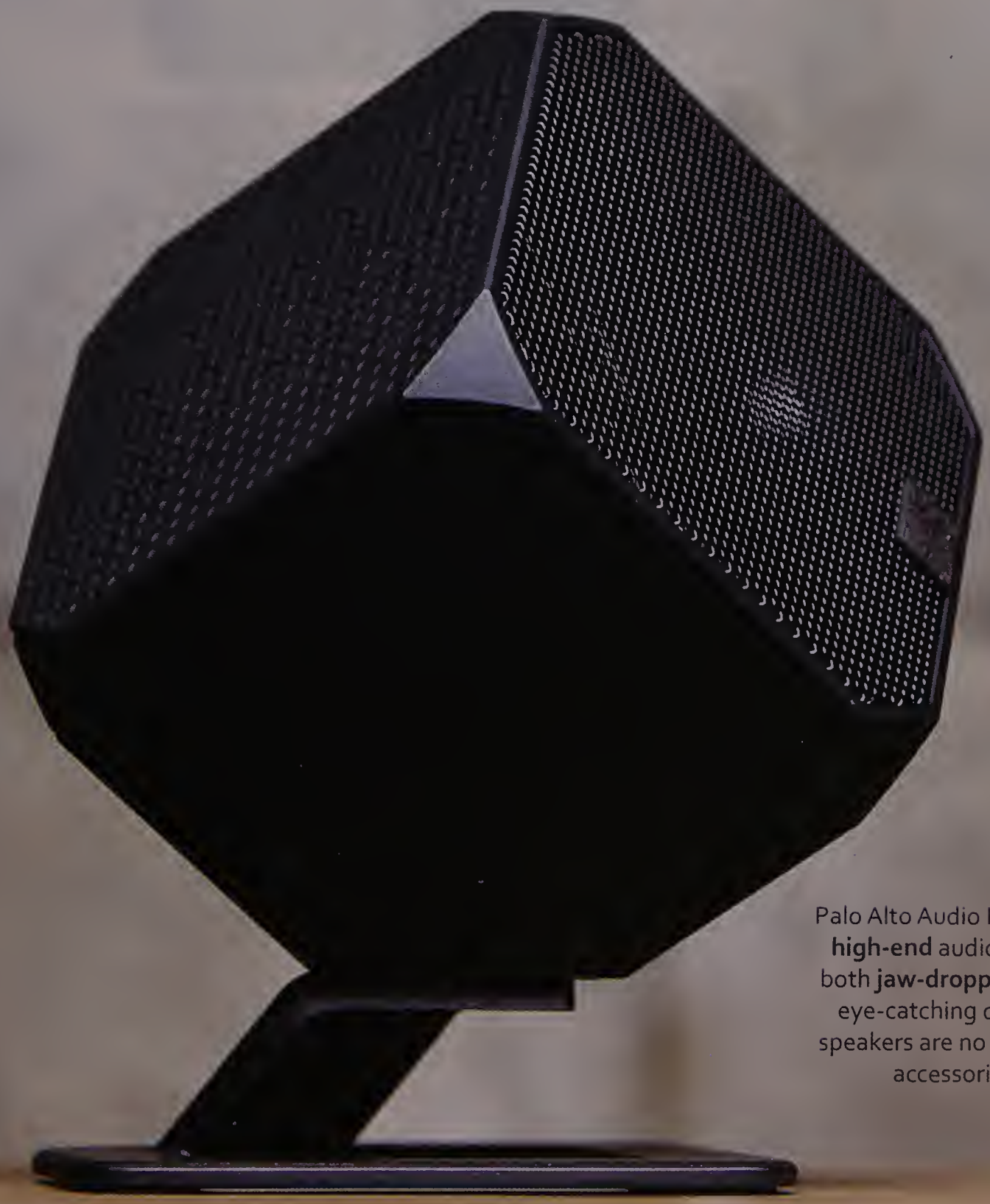


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iPad Cases



BAGS

A bag lets you carry your iPad along with your other gear, and you can use it to tote your daily stuff even when you aren't bringing your iPad with you. SGP's $75 **Dresden Klaus 9i** messenger-style bag (macworld.com/a/1165277) is a good product for anyone seeking sleek, simple, no-frills functionality. The exterior is free of embellishments—no extra finishing touches here. The bag is light and thin, but solid enough to protect your iPad. The removable shoulder strap is comfortable and adjusts easily. Plus, the Klaus 9i sports two iPad-size pockets and two smaller pockets for housing cables and other accessories.

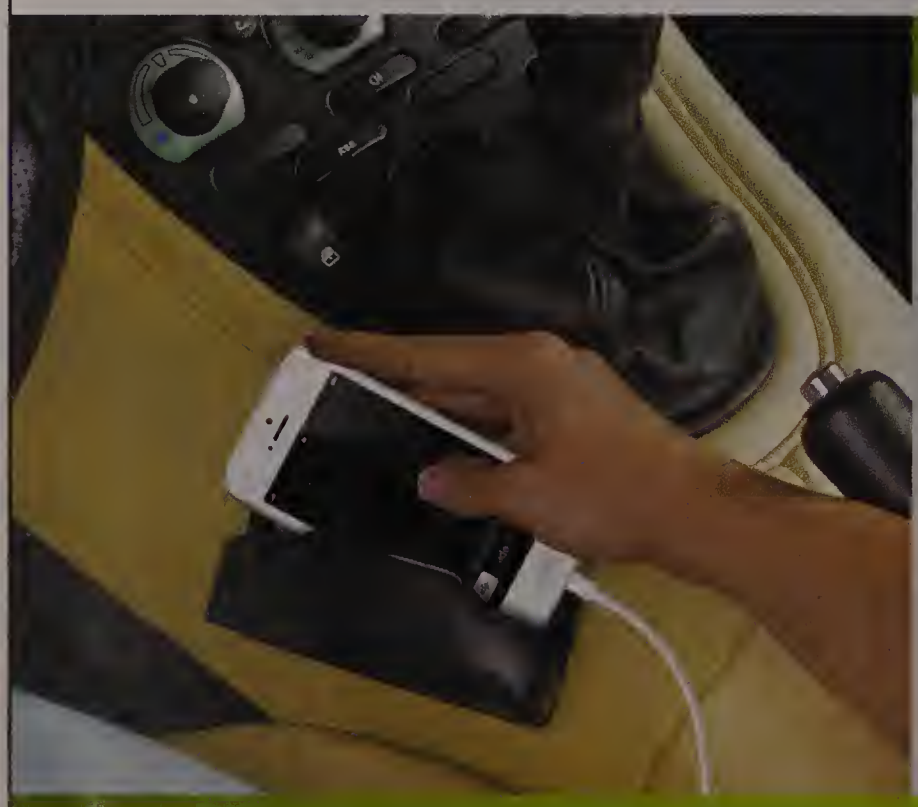


Carrying Packs

Sometimes you want to carry more than just your iPad, but you don't want a bulky bag or backpack. A carrying pack safeguards your iPad but also accommodates cables, a charger, and even a stand-alone Bluetooth keyboard. The $35 Incipio **Tek-nical** (macworld.com/a/1152065) is a carrying case made from soft memory foam that cushions your iPad and keeps it protected. It zips all the way around, ensuring that your iPad is completely enclosed when not in use. Two exterior pockets on either side of the case will hold some extra accessories, and the two handles make this an easy pack to carry. Other recommendations are Sena's $150 Collega (macworld.com/7989) and WaterField Design's iPad Travel Express ($69 to $79; macworld.com/a/1159603).

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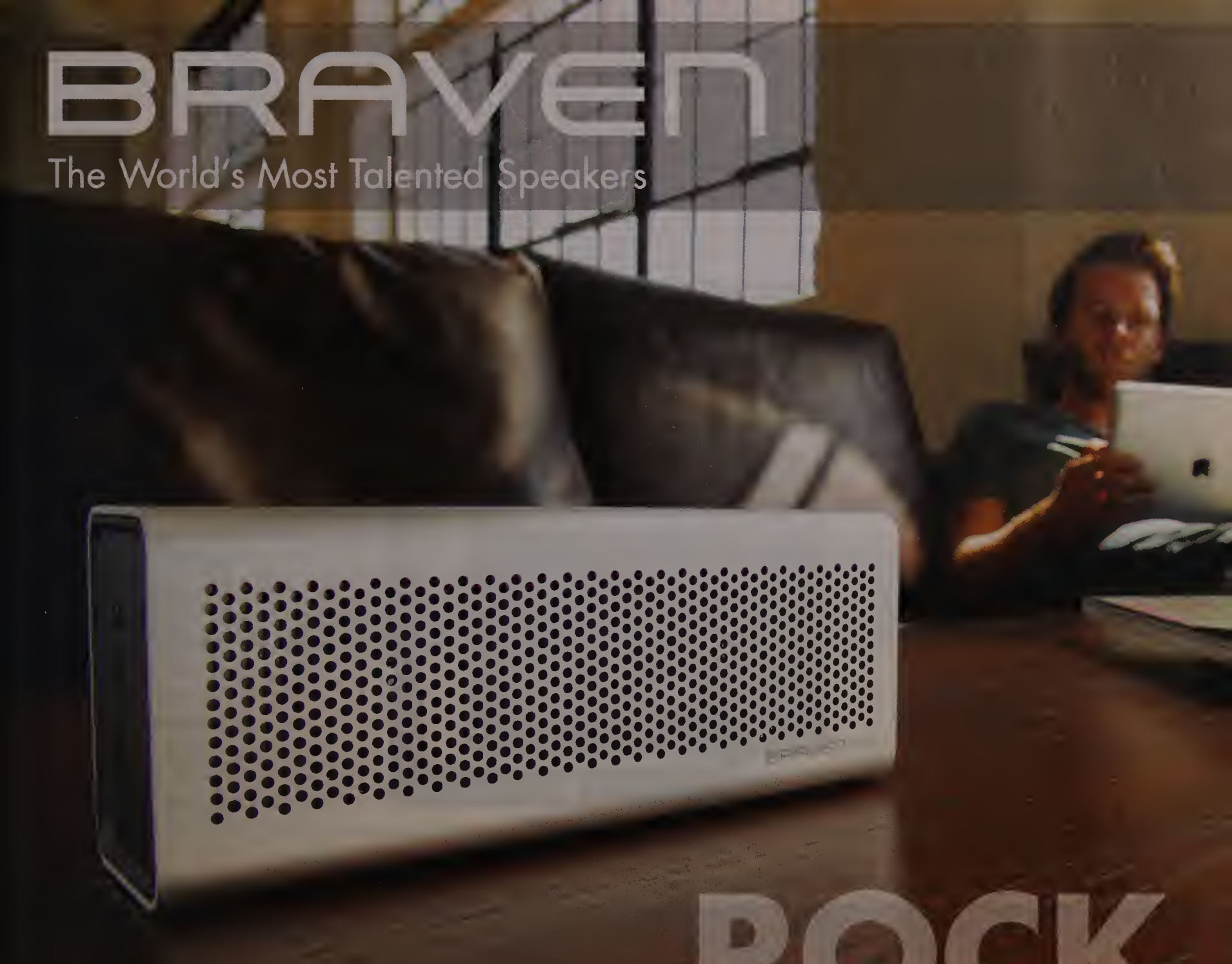
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iPad Cases

BODY FILMS

Body films protect the sides and back of your iPad from scratches and scuffs without adding bulk—they're simply a thin layer of superprotective material that adheres directly to the iPad. You can remove most types without leaving behind sticky residue. Some also include a screen film. Wrapsol's $30 **Ultra** full-body film for the iPad (macworld.com/8009) offers a lifetime-replacement guarantee and ships with instructions, a squeegee for installing the film, and a microfiber towelette for keeping the film clean.



SCREEN FILMS

Screen films are designed to protect the iPad's display from scratches without affecting touch-screen performance; a few also aim to reduce screen glare. Unfortunately, many of these films are difficult to apply, and some actually make glare and fingerprints worse. However, Moshi's $30 **iVisor AG** (macworld.com/7990) includes a frame around the screen protector to ease the burden of applying the film. This frame matches up neatly with the black or white bezel around your iPad's screen and blends in pretty well. Plus, you can remove, clean, and then reapply the iVisor repeatedly.



Decisions, Decisions...



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Working Mac

Tips, Tricks, and Tools to Make You and Your Mac More Productive



Tame Text in Pages

Discover powerful word processing features in Apple's iWork app.

BY CHRISTIAN BOYCE

Far more than being simply Apple's version of Word, Pages (★★★★; macworld.com/a/1138282) is full of powerful, timesaving features that can help you make great documents quickly. You can find some of the program's best capabilities within Pages' styles and templates. Gain some familiarity with these features, and you'll make better documents in less time than ever before. Here are half a dozen tips to get you started.

Apply Styles Quickly

You can use styles to format text quickly and consistently. Paragraph styles affect an entire paragraph, whether you've highlighted every character that the paragraph contains or you've simply clicked to position the cursor anywhere inside it. Clicking is faster, so don't bother with the careful selecting. To apply a style, you can use the Styles Drawer (*View* ➝ *Show Styles Drawer*) or—better yet—keyboard shortcuts. With the Styles Drawer open, Control-click (right-click) a style name. In the menu that appears, choose *Hot Key*, and then select one of the shortcut choices in the menu. Now, to apply a style, you can simply click within a paragraph and press this shortcut key.

Define Your Own Styles

Want to redefine a paragraph style? Format one instance of it by hand, click anywhere in it, and then, in the Styles Drawer, Control-click (or right-click) the selected style and choose *Redefine Style from Selection*. The program will update the formatting of every paragraph in that style. Character formatting works similarly for character strings within a paragraph—just be sure to highlight the formatted text before you Control-click (right-click) the style name in the Styles Drawer.

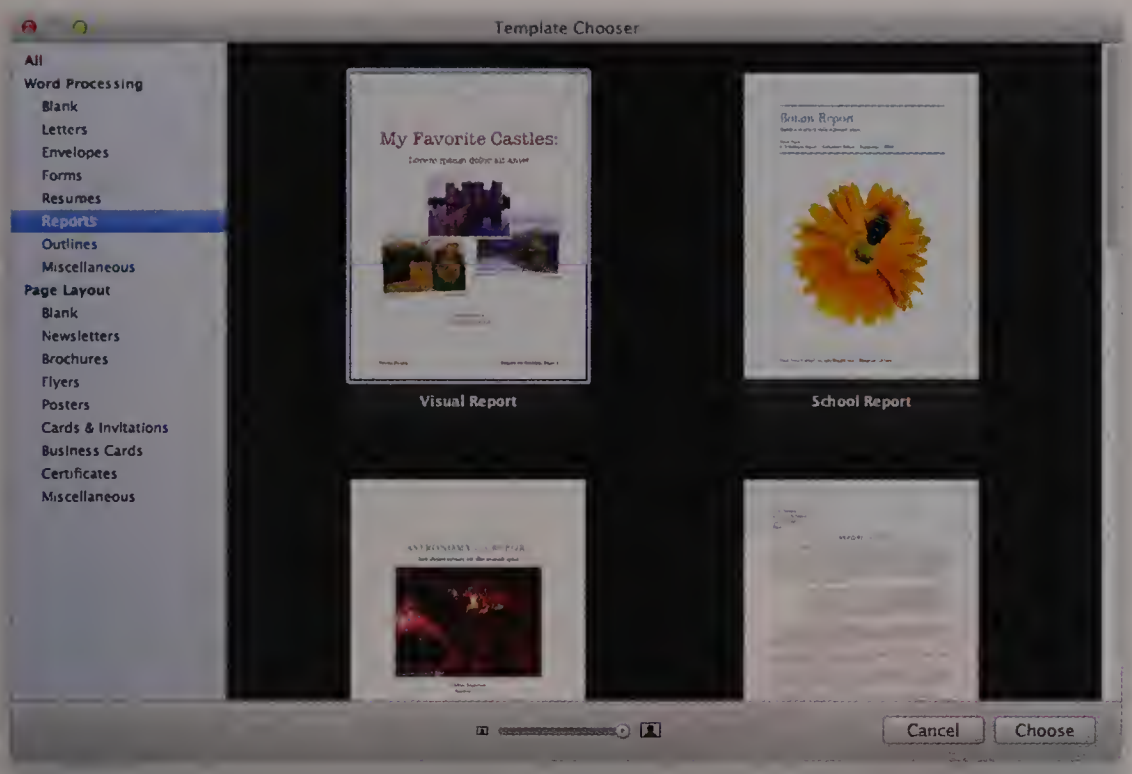
Defining a new style from scratch is also a cinch: Format a paragraph or some characters by hand, and then click the plus-sign button (+) at the bottom of the Styles Drawer. In the 'New paragraph style' or 'New character style' window, type a name and click *OK* to confirm it. Alternatively, for paragraph styles, you can Control-click (right-click) within the paragraph and then select *Create New Paragraph Style from Selection*.

Import Styles From Other Docs

If you already have styles in one Pages document, you can reuse them in another, saving time and ensuring consistency in your written materials. Choose *Format* ➝

Gain some familiarity with the special features of Pages' styles and templates, and you'll make better documents in less time than ever before.

ILLUSTRATION BY ALEX EBEN MEYER



Tons of Templates Pages' Template Chooser permits you to browse through templates for a multitude of document types. Use the slider at the bottom to adjust the thumbnail size.

Import Styles, navigate to the document in the open dialog box that appears, and then click *Open*. Pages will show you a list of every style in that document. You can import all of them if you wish, or you can select just the ones you want by holding down the ⌘ key. You can elect to replace duplicates with the imported styles or to retain both (in that case a '2' appears at the end of the imported style's name).

Take Advantage of Templates

Templates give you an enormous head start on your documents. Pages sorts its templates into two basic groups: Word Processing (for text-centric documents such as letters and reports), and Page Layout (for things like newsletters, flyers, and brochures). Each template contains professionally designed styles; and with the exception of the Blank templates, each contains placeholder text, which you can replace by clicking in it and then typing whatever new content you like.

Many templates contain more than one type of page. For example, the various Reports templates may include a cover, a table of contents, chapter pages, text pages, and a bibliography. To reveal these different page types in the Template Chooser, slowly move the cursor across a template's thumbnail.

Once you've chosen a template and created a document, you can add pages to it by using the Sections button (in Word Processing docs) or the Pages button (in Page Layout docs) on the toolbar.

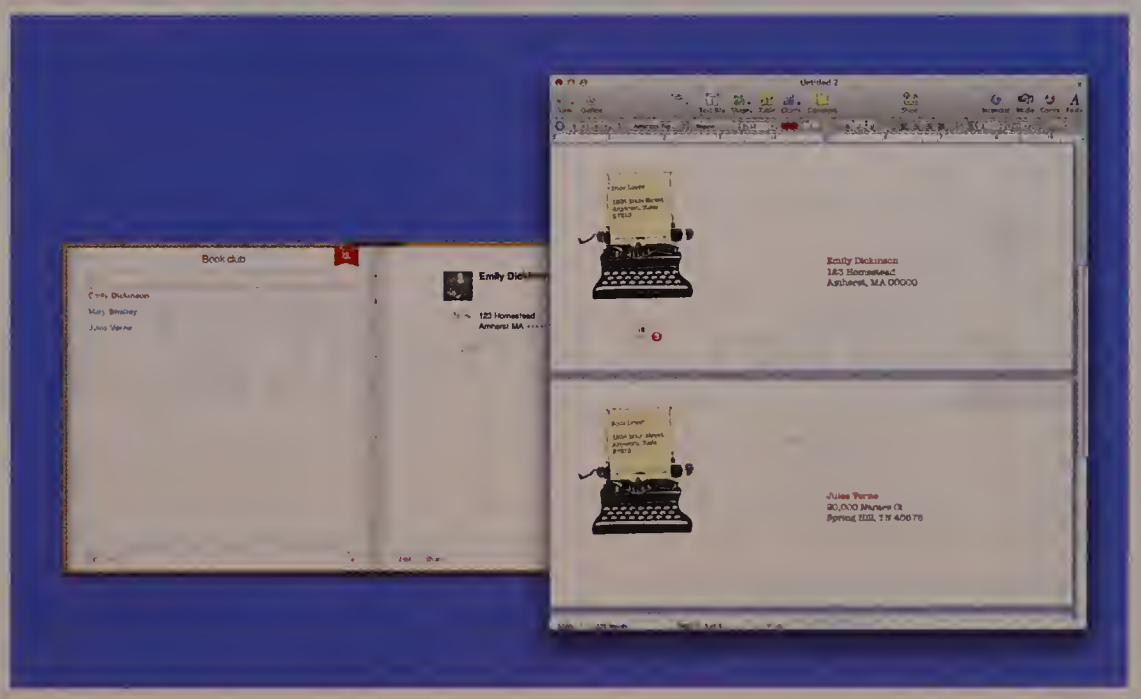
Include Address Book Info

Some templates—such as 'Envelopes' and 'Letters' in Word Processing, and many of the ones that appear in the Page Layout section—accept vCards, a standard e-business card format. If your template has placeholders for name and address, you can drag in a vCard or an Address Book entry to fill in the information automatically. Bonus tip: If you select multiple people in Address Book (or if you select multiple vCards) and drag them to an envelope template, Pages will create an addressed envelope for each one.

Documents that you create using a Business Card template show information from your own Address Book card. To make this automated process function properly, you must create an entry for yourself in Address Book—complete with home and work addresses—and then choose *Card* ➝ *Make This My Card*.

Make Your Own Templates

Choose *File* ➝ *Save as Template* to save a document (you guessed it) as a template. You don't need to worry about where to save it, as Pages will save your template into *youruserfolder*/Library/Application Support/iWork/Pages/Templates/My Templates by default. If (and only if) you accept the default location, your template will appear in the Template Chooser, in a section called My Templates, complete with autogenerated thumbnails. This is a perfect place to store business-related documents like letterheads, envelopes, and contracts. You can share templates with colleagues by copying them to the corresponding My Templates folder on their Macs.



Form of Address By dragging contacts from Address Book onto a Pages template, you can quickly address a whole group of envelopes at once.



Five Great Gmail Tips

Take advantage of these fast-track features in Google's free email service.

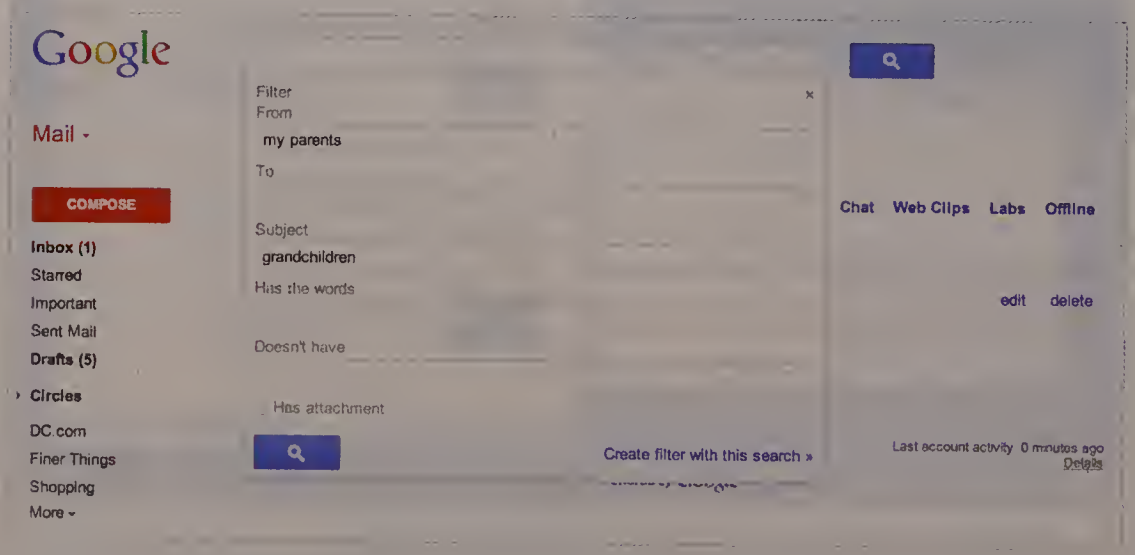
BY DAVID CHARTIER

When it comes to managing your email, Google's free Gmail (mail.google.com) is easily one of the most efficient tools around. Over the years, Google has reinforced its unique approach and built bigger and better features into Gmail. But faced with such a wide array of choices, a newcomer may find the process of selection rather daunting. Which of this email program's many options do you actually need? Though different users will have different preferences, here is a brief rundown of my top five picks.

1. Show Only Your Favorite Labels

Labels allow you to associate a single Gmail message with multiple categories. For example, suppose that your partner recently sent you an email message discussing the state of planning for the next family get-together. As you read it, you might use the tag icon at the top to create one label called "Family" and another called "Follow Up." Later, you could click the Family label to filter out all unrelated messages, or you could check your Follow Up label for messages that still require an answer.

If you find that you tend to use certain labels much more frequently than others, you can pick and choose which ones to show in your Gmail sidebar. From the Gear menu, choose *Settings*, and then *Labels*. Next to each default label, and any additional ones you've created, you'll see the option to show or to hide it.



Email Action Use Gmail's filters to sort messages and to apply specific actions to them.

2. Use Filters to Sort Important Messages

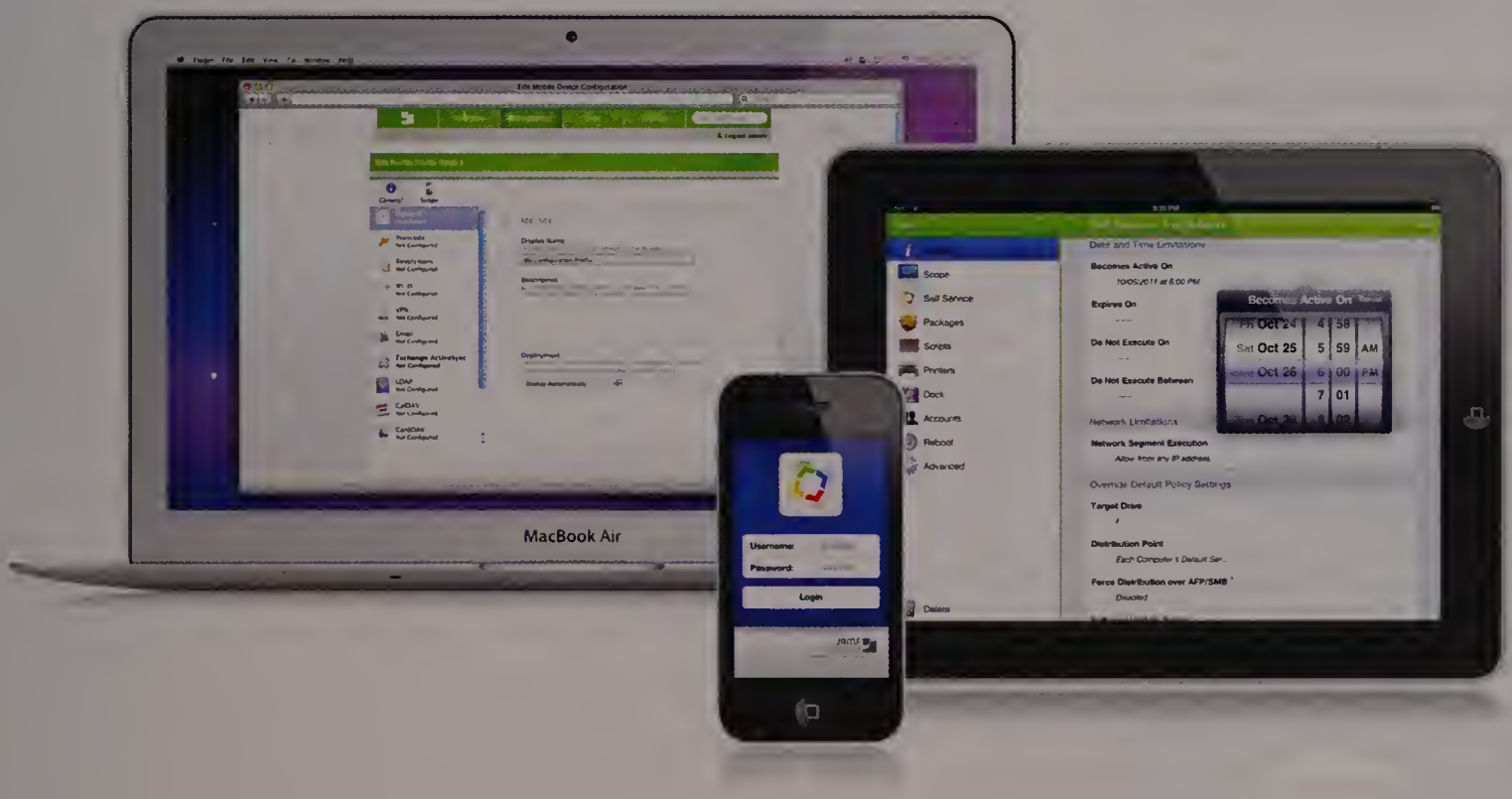
Filters are a great way to sort mail based on various attributes such as the sender's address, whether the message includes attachments, and whether keywords appear in the subject or body. If you belong to a lot of email lists or forums, or if you have an uncle who just can't stop forwarding cat photos and chain letters, filters are a killer way to enlist Gmail to fight your organizational battles for you.

To set up a filter, go to the Gear menu, choose *Settings*, and click *Filters*. Then select *Create a new filter*. You'll have the option to enter filtering criteria, as well as to test the filter to confirm that it is picking up the right messages. For example, to deal with your uncle's many distracting messages, you could create a filter containing his email address in the From field (say, 'uncle@example.com'), and click

ILLUSTRATION BY JESSE LEFKOWITZ

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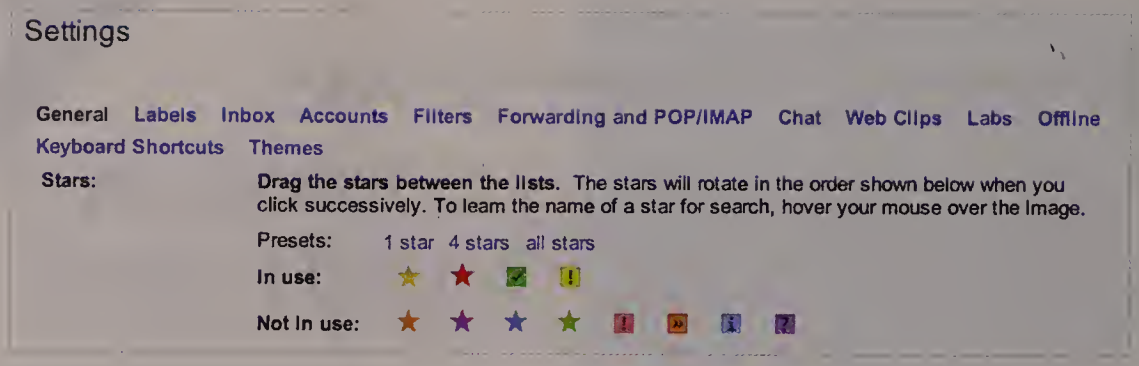
PC to Mac Conversions
Microsoft SCCM Plug-In
Altiris Plug-In



Everything Apple for business, **managed.**

www.jamfsoftware.com/everything-business

casper



Create filter with this search. In the next window, choose your action: You can assign a label to the messages and archive them; or if you know that you'll never get to them, just trash them right away and spare yourself the anguish (and the pointless clutter).

Another option is to create filters directly from a message you're viewing. Click the disclosure triangle next to the reply arrow and then, in the menu that appears, choose *Filter messages like this*.

3. Customize Your Inbox

Gmail offers a few ways to organize your inbox. One of the most useful of these involves using the program's Priority Inbox. Mouse over the Inbox label at the top of the sidebar, and click the arrow next to it. In the menu that appears, select *Priority Inbox* to see your inbox transform into three sections: 'Important and Unread', 'Starred', and 'Everything else'.

Mark messages as important by using the little yellow marker near the subject to train Gmail to recognize that those topics and senders should receive VIP treatment. The difference between marking a message as important and starring it is that, once you've read a message, it disappears from the important list. Starring a message is more akin to pinning it to a bulletin board; the message disappears only when you unpin it by removing the star.

You can customize how these sections behave by mousing over their names and clicking the arrows next to various ones. For example, you might make a new inbox section to display the five most recent unread messages for the label that catches your favorite forum's notifications, or a new section for the label that designates messages from family and friends.

Star System Gmail lets you star items with symbols in a variety of shapes and colors. Use these symbols to create your own visual filing system and to make messages really pop when you're skimming your inbox.

4. Expand Your Stars

Starring Gmail messages—the equivalent of flagging messages in Apple Mail—has proved to be such a useful tool for marking important messages that Google decided to expand on the shapes and colors you can use to do it.

In the Gear menu, go to *Settings*, click *General*, and scroll down a short distance to see all of your star options. Depending on how you work and what colors catch your eye, you can choose stars in many colors, orange arrows, green checkmarks, purple question-mark boxes, and more.

5. Turn On Two-Factor Authentication—Really

Think of this feature as a "sleep better at night" enhancement to your Gmail experience. Two-factor authentication means that whenever someone (including you) attempts to sign into your account from a new device, Google pings you via another device you've specified, such as your cellphone, before granting access.

Macworld staff writer Lex Friedman has written a great article about how to set up Google's two-factor authentication (macworld.com/a/1168054), and I wouldn't blame you if you dropped everything—including this very article—to read it now.

Email That Works

Email can feel as though it demands far more of you than you get from it. But armed with a few great Gmail tricks like the ones above, you can conquer your inbox and bring peace to your workflow.

Mountain Lion Dictation Tricks

Get the most out of the Dictation voice transcription technology.



Mountain Lion's systemwide Dictation feature lets you talk to your Mac and have the OS transcribe your text. But to harness the true power of telling your Mac what to type, you need to learn a few tricks.

Let's start our tour of Dictation tips with a quick look at quotation marks. To put a word or phrase in quotes, use this pattern to frame your cues: "I can't wait to see Samsung's next open quote original close quote tablet." That wording yields "I can't wait to see Samsung's next 'original' tablet." You can just say "quote" instead of "open quote," but you do need to use "close quote" to end a quotation. (You can use the same syntax for parentheses.)

You can tell Dictation that it should always capitalize certain words. For example, in the sentence "I'm going to write about Mountain Lion today," Dictation transcribes "Mountain Lion" with a lowercase *m* and *l*. If you say instead, "I'm going to write about cap mountain cap lion today," Dictation gets it right. To put something in all caps, try this: "The last part of this sentence is all caps on very important period all caps off." Dictation lets you control spacing, too. Say "new line" to introduce a hard return and "new paragraph" to skip two lines.

Dictation knows many punctuation marks and symbols. To type a particular character—say, a currency symbol or an inverted exclamation point—just speak its name, and Dictation will transcribe it. This works for various special characters, including degree, caret, registered, and copyright symbols. Dictation can help you type emoticons as well.—LEX FRIEDMAN



DF: Me?

ML: Yes, you're quite the talk of the town!

DF: You want your computer music files to seduce you, inspire you, touch your soul … to make you smile?

ML: Please!!

DF: You want great sound from your movies, videos & games too?

ML: Yes!!!

DF: You want to replace your computer's so-so audio output with a state-of-the-art DAC using dedicated 'clocks,' the best processing chips, analog volume control and asynchronous transfer?

DF: You want all this beautiful sound from a tiny little USB stick that can drive your headphones, earbuds, powered speakers, or your main audio rig?

DF: You want to take me on the road, on a plane, to the office, to the beach?

ML: Oh yes !!!!

DF: Maybe your favorite audio dealer can arrange a proper introduction?

ML: Right away!

(Chat between DragonFly digital-audio converter/preamp and a Music-Loving human.)

DragonFly

USB Stick Digital Audio Converter

Beautiful Sound … From Any Computer

- Bypasses Computer's Audio Output for Beautiful Sound
- Plays All Computer Audio: Music, Movies, Videos, Games & More, From MP3 to 24-bit/192kHz
- Connect Headphones and Earbuds Directly
- Connects to Powered Speakers and AV Receivers
- Asynchronous Transfer and Two Clocks for Optimum Sound Quality
- Makes Smiles :-)





"AudioQuest's $249 DragonFly USB DAC is brilliant in every respect: form factor, cool factor, versatility, value, and sound quality. I can't think of a product that makes high-end sound more accessible to more people. Want better sound? Here, plug this into your computer. Done."

- Robert Harley, The Absolute Sound, October 2012



Shown Actual Size

audioquest

Ready for Troubleshooting Duty

The ideal toolkit for a traveling tech-support warrior.

BY CHRISTOPHER BREEN

If you're reading this, there's a good chance that at least one of your unpaid occupations is as a tech guru for friends and family. When you visit them this holiday season, you'll encounter loads of questions and pleas for help. Here are the tools you need.

Emergency supplies: I always bring a laptop, an external hard drive with tons of free space, my troubleshooting tools, and lots of adapters and cables. With that laptop I can reconfigure networks, remotely access a Mac, and move data files from my Mac to theirs.

At times I need to copy a lot of data from a Mac before I restore it or perform some other potentially data-threatening job. That's what the external hard drive is for.

Troubleshooting software: These tools are for pulling a misbehaving Mac out of the soup. The ones I consider essential are Alsoft's $100 DiskWarrior 4 (★★★★★; macworld.com/7995), Prosoft Engineering's $99 Data Rescue 3 (★★★★; macworld.com/7996), and Micromat's $100 TechTool Pro 6 (macworld.com/7997). The easiest approach is to make your external hard drive bootable and install all the tools you need on it. I start by booting from that drive, making sure the Mac runs well when it's not booting from the current startup volume, and then repair whatever needs fixing.

Lots of cables: Cables and adapters are essential. Suppose that Mom wants to move pictures from her point-and-shoot camera to an iPad. No problem—I whip out my $29 iPad Camera Connection Kit. Or maybe my extended family wants to see slides of a camping trip without crowding around the MacBook Air's small screen. I just attach Moshi's $35 Mini DisplayPort to HDMI Adapter to the MacBook's Mini-Display or Thunderbolt port, and string an HDMI cable between the adapter and display—and I'm projecting. With Apple's $39 Apple Digital AV Adapter, I can do the same thing with my iPhone or iPad.



Ready for Showtime Are you prepared to handle a family slideshow? You can project your Mac's screen to an attached HDTV with Moshi's Mini DisplayPort to HDMI Adapter.

I also take along USB cables with standard USB, Mini-USB, and Micro-USB connectors. That way, should I need to attach my laptop to a camera, an eBook reader, or some other gadget that supports USB, I'm covered.

Backup boosters: Because not all of my family and friends back up religiously, I carry several USB flash drives with enough capacity to store their valued documents. I copy these to the drive, deliver my lecture on the importance of backing up, and hand over the drive (after extracting a promise from the recipient to keep it safe).

Entertainment on the Road

Before you leave home for the holidays, take a moment to consider the state of your entertainment system. Are you often on the road with a decent broadband connection but limited access to TV programs? There's always room in your kit for an Apple TV. WaterField Designs' $45 Apple TV Case (macworld.com/7998) makes a great travel pouch for the Apple TV, power cord, HDMI cable, and Apple Remote.

Still, if you'll be connected to a typical hotel "high-speed" service, you might as well forget about streaming movies. These networks are almost always unacceptably slow. Instead, put a few movies directly on your iOS device or laptop, bring a portable hard drive loaded with movies, and jack it into your laptop, or store media on a Wi-Fi–enabled hard drive that lets you stream directly to a computer or an iOS device. If you have an older laptop equipped with a SuperDrive, bring some DVDs.—CHRISTOPHER BREEN



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The Crux360™ is the world's first keyboard case that allows you to use the iPad® in a multitude of positions. It turns your iPad® into a powerful work tool while still maintaining the simplicity of the iPad® you love. It features a 360 degree hinge which allows you to use your iPad® as a laptop, tablet, case, or stand.







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Reviews

Hardware and Software for All Your Business Needs

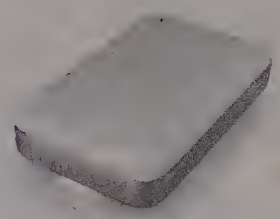


Hardware

Seagate Technology Backup Plus Portable Drive for Mac 1TB

●●●½; $130; Seagate Technology; www.seagate.com

With the Backup Plus Portable Drive for Mac, Seagate has reinvented its line of portable hard drives, incorporating a number of desirable features into the new design. The Backup Plus uses Seagate's Universal Storage Module, which allows you to purchase and use Thunderbolt, FireWire 800, USB 3.0, and USB 2.0 adapters. At a pocket-size 4.9 by 3.2 by 0.6 inches, it's a natural for travel. We tested the drive using Thunderbolt, FireWire 800, USB 3.0, and USB 2.0. The Backup Plus posted transfer speeds similar to those of comparable drives when connected via USB 2.0 and FireWire 800. Over USB 3.0 and Thunderbolt, though, Seagate's drive lagged behind its competitors. Seagate's Backup Plus is flexible, portable, quiet, and affordable. It's not an impressive speed performer, however, and—depending on your particular system—you may have to invest some extra cash to take advantage of the boosted speeds offered by USB 3.0 or Thunderbolt. By far the drive's most intriguing attribute is its dashboard software, which enables you to back up and share your Facebook, Flickr, and YouTube photos and videos. If you're a social media user in need of convenient backup, the Backup Plus may be the ticket. Otherwise, it's pretty ordinary.—KEAN BARTELMAN



Buffalo Technology MiniStation Thunderbolt

●●●½; 500GB, $200; 1TB, $240; Buffalo Technology; www.buffalotech.com

Buffalo Technology's MiniStation Thunderbolt is a plug-and-play, portable external hard drive with Thunderbolt and USB 3.0 connectivity. The MiniStation comes preformatted for Mac and is Time Machine compatible, so backing up your data is a breeze. The drive comes in 500GB and 1TB capacities and includes both a Thunderbolt and a USB 3.0 cable. Housed in a silver aluminum body with a white top, the drive has just two ports: one Thunderbolt and one USB. A flashing white activity light lets you know when it's connected. The 3.2-by-5.1-by-0.9-inch body and the bus-powered ports on the MiniStation let you take your data anywhere you need to go. Although it boasts high-speed Thunderbolt and USB 3.0 interfaces, the MiniStation yielded unspectacular test results, owing to its plodding internal mechanism, a rotating platter drive. Overall, this hard drive performed similarly to Seagate's new Backup Plus Portable Drive, but it is considerably pricier and has fewer extras. Nevertheless, if you're looking for a portable plug-and-play drive that has the latest connectivity options, this MiniStation may have your name on it.—KEAN BARTELMAN

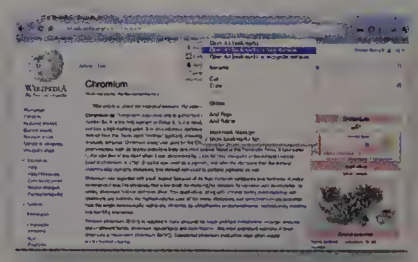


Epson WorkForce Pro WP-4590

●●●●; $500; Epson; www.epson.com

This Epson color inkjet multifunction printer works quickly and uses inexpensive ink, but it's sold only through corporate channels. It targets large businesses that value service and a low total cost of ownership over a low initial purchase price. The WP-4590 comes with a three-year warranty, and Epson software. It has USB and ethernet connections, but no Wi-Fi (in the interest of security, per Epson). The control panel sports a 2.5-inch LCD and the usual array of buttons, neatly arranged. For paper handling, the WP-4590 provides a 250-sheet tray on the bottom as well as an 80-sheet rear vertical feed, a 30-sheet automatic document feeder, and a telescoping flatbed scanner lid. This is the fastest inkjet we've tested recently. In our tests, its output was quite good, with sharp black text and near-laser-quality output. The Epson WorkForce Pro WP-4590 is an inexpensive alternative to a low-end color laser MFP for small corporate workgroups. It's fast enough for most work scenarios, it has outstandingly low ink costs, and its long warranty is better than what most makers of comparably priced lasers offer.

—JON L. JACOBI AND MELISSA RIOFRIO



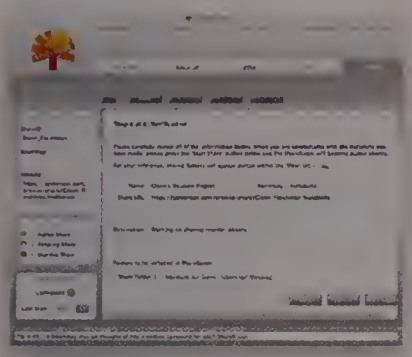
Software

Chrome 21 for Mac

●●●●½; free; Google; www.google.com

Google's Chrome lacks the sleek appearance of Apple's Safari, but it sure burns rubber! Despite the leap in version numbers, Chrome 21 looks a lot like last year's Chrome 8 (●●●●½; macworld.com/a/1156899)—right down to the interface's persistent rough edges. Google's coders seem more interested in the technical side of things than in how their browser interacts with humans, with the laudable exception of Chrome's much-improved integration of Apple's VoiceOver. Most of the browser's other improvements are under the hood. If you prefer a clean, bare-bones browser, or need first-rate JavaScript performance, Chrome is the choice

for you. What it lacks in surface refinements, it makes up for in raw power.—NATHAN ALDERMAN



SpiderOak 4.7

4½; 2GB of storage, free; 100GB, $10 per month; SpiderOak; spideroak.com

SpiderOak started its business career as a hosted Internet backup service; but right from the start it had its sights set on offering a complete syncing and sharing suite. It has advanced a long way toward that goal, though the interface has some rough spots (for instance, the app doesn't show up in the Dock when you open it). The backup process feels Unix-like, but it provides a host of tweaks. You can exclude files based on size and wild cards, and you can specify the frequency of backup, sync, and sharing operations separately. SpiderOak takes a flexible approach to syncing: You can pick two folders anywhere locally or on a network. Though it's pricier than many backup providers, it offers a greater range of services than most. Its full-backup feature and strong security go beyond anything in Dropbox, and its data storage prices are about the same. If you're looking for the highest level of privacy as well as complete service for backup, sync, and read-only folder sharing, SpiderOak offers the strongest combination around.—GLENN FLEISHMAN

Top Products

YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



HARD DRIVES
Desktop

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
G-RAID With Thunderbolt www.g-technology.com	4	$1095 (8TB)	Quad interface	7856
LaCie d2 Quadra USB 3.0 (pictured) www.lacie.com	4½	$250 (2TB)	USB 3.0	7855
My Book VelociRaptor Duo www.wdc.com	4	$900 (2TB)	Thunderbolt	7992



HARD DRIVES
Portable

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
Hitachi Touro Mobile Pro www.touropro.com	4	$92 (750GB)	Single interface	7854
IoSafe Rugged Portable SSD (pictured) www.iosafe.com	4½	$499 (120GB)	Single interface	7559
My Passport Essential www.wdc.com	4	$72 (500GB)	Dual interface	7521



INPUT DEVICES
Keyboards, Mice, and More

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
Intuos5 Pen Tablet intuos.wacom.com	4½	$320	Pen tablet	7695
Magic Trackpad www.apple.com	4	$65	Trackpad	7994
Wireless Solar Keyboard K750 (pictured) www.logitech.com	4	$60	Keyboard	7560



PRINTERS
Laser and Inkjet

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
5130cdn (pictured) www.dell.com	4½	$1380	Color laser	7993
C544dn www.lexmark.com	4½	$319	Color laser	4356
WorkForce Pro WP-4590 www.epson.com	4	$405	Color inkjet	7991



PRINTERS
Multifunction

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
OfficeEdge Pro5500 (pictured) www.lexmark.com	4	$190	Inkjet	7694
Pixma MG6120 www.usa.canon.com	4	107	Inkjet	7254
WorkForce Pro WP-4540 All-In-One www.epson.com	4	$278	Inkjet	7857

[1] All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. [2] In a browser's address field, typing a find code after *macworld.com/* takes you to a product's review or overview.

Playlist

Everything You Need to Know About iPods, iTunes, and Mac-Based Entertainment



Monster Match iTunes Match as viewed from within iTunes.

Head-to-Head: iTunes Match Versus Amazon Cloud Player

BY CHRISTOPHER BREEN

Head-to-Head

The advent of digital distribution has changed the way we acquire music. Not only can we almost instantly download the music we want from multimillion-track libraries, but we can take our music with us wherever we go, even if it won't fit on our music player or mobile phone. The means for this miracle of "music in the ether" is cloud delivery.

Two of the key participants in this area are Apple, with its iTunes Match, and Amazon, with its Cloud Player. Each of these services has its advantages, but how do they compare? Let's find out.

iTunes Match

iTunes Match ($25 per year) offers access to up to 25,000 tracks that you own (but not to audiobooks and podcasts). After paying for iTunes Match, you switch on the feature (select *Store* ➜ *Turn On iTunes Match*). iTunes sends a list of your tracks to Apple, which compares them with tracks in iTunes' catalog. Your tracks must be in a format iTunes recognizes: AAC, MP3, AIFF, WAV, or Apple Lossless.

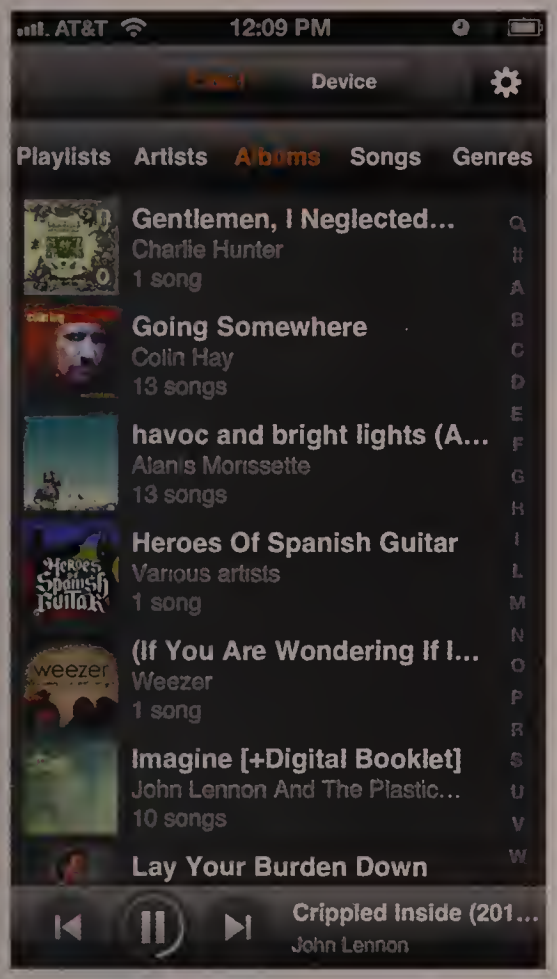
Tracks that match catalog items become available to you on any device that supports iTunes Match (computers running a copy of iTunes, iOS devices, and Apple TV). Any tracks that aren't in iTunes' catalog (or that iTunes fails to recognize because of metadata confusion) upload to Apple's servers, where they become part of your cloud-based music collection. Tracks that you've purchased from the iTunes Store don't count against the 25,000-track limit.

You can stream tracks through iTunes, iOS devices, and your Apple TV. iPhones and compatible iPads support streaming over both Wi-Fi and cellular connections. You can also download songs to a computer running iTunes, or to an iOS device. (Current Apple TVs—which lack hard drives—don't support downloading and can only stream tracks.) When you download items from iTunes Match, the service delivers matched tracks as 256-kbps AAC files, which sound better than any lower-bit-rate originals (such as ripped 128-kbps MP3s) you may have uploaded. Unmatched uploaded tracks will retain their original format and bit rate unless they started as Apple Lossless or uncompressed AIFF or WAV tracks, which download as 256-kbps AAC files.

If you discontinue your iTunes Match subscription after the year is up, you can keep any tracks you've downloaded, but you can't access your tracks in the cloud.

The knock against iTunes Match is that its 25,000-track limit is too low for people with vast music libraries. Regrettably, you can't choose a subset or playlist of tracks: If your music library exceeds the limit, you can't use iTunes Match. Nor can you buy additional space for iTunes Match. If you have a massive library, you have to cull it, which requires some trickery—you must either create a new iTunes library with fewer tracks or mark some tracks as podcasts or audiobooks so iTunes won't count them among your music tracks.

And iTunes Match still has glitches. It's



Lots in the Cloud Amazon Cloud Player as displayed in the Amazon iPhone app.

not at all unusual to encounter duplicate entries, missing artwork, and missing tracks that are indeed in iTunes' catalog.

Amazon Cloud Player

Unlike iTunes Match, Amazon Cloud Player didn't offer matching when it launched. You could stream and download the tracks you purchased from Amazon MP3, but you had to upload any tracks that you had obtained elsewhere. Now, however, if Cloud Player recognizes tracks in your music library (iTunes, Windows Media Player, or a selected folder) as being part of its catalog, it will match those tracks. And you can upload tracks that aren't available from Amazon.

So, what are the differences? First, unlike iTunes Match, Cloud Player has a free version, and that version provides access to any eligible tracks you've purchased from Amazon MP3; it also lets you match or upload up to 250 tracks from your computer's music library.

Subscribers to CloudPlayer Premium ($25 per year) have access to up to 250,000 tracks—10 times the iTunes Match maximum. (You can also get Cloud Player Premium with file-storage plans that cost more than $25 per year.)

Cloud Player recognizes tracks in AAC, AIFF, Apple Lossless, FLAC, MP3, OGG, WAV, and WMA formats. But it can upload only AAC and MP3 files. Unmatched files download in their original format. Matched tracks download as 256-kbps MP3 files.

Like iTunes Match, Cloud Player lets you stream and download music over Wi-Fi or over a cellular network. Cloud Player will neither match nor upload DRM-protected files (including music files you may have bought from the iTunes Store before Apple removed copy protection); it won't import files larger than 100MB; and it won't accept ringtones, podcasts, or audiobooks. Any matched music that you download is yours to keep, even after your service plan expires.

Besides streaming and downloading songs to iOS devices (via the Amazon Cloud Player app, macworld.com/8004), you can play and download music with any computer Web browser; stream music from the iOS version of Safari; download and play music on a Kindle Fire, Android, or BlackBerry device; and stream Cloud Player content on a Sonos multiroom music system. Support for Roku players is coming soon.

Cloud Player has several drawbacks for Apple users. First, the Cloud Player app doesn't have an iPad-specific version, and the version for the iPhone and the iPod touch is ungainly and doesn't exploit the iPad's expansive screen. Second, Cloud Player can't match or play DRM-protected tracks bought from the iTunes Store. Third, to play Cloud Player content on your computer, you must use a Web browser and Amazon's somewhat clumsy interface. Finally, as with iTunes Match, you'll run across missing or mismatched artwork, duplicate tracks, and tracks that should have matched but didn't.

To match and upload tracks to Cloud Player, you must go to the Cloud Player webpage, log in to your Amazon account, click *Import Your Music*, and wait for the Amazon Music Importer app to download to your computer. After installing and launching the app, click *Start Scan* to begin a scan of your iTunes or Windows Media Player library for compatible music files. (Or click *Browse Manually* and select a directory that contains your music.) The process isn't terribly onerous, but it's more complicated than using iTunes.

One or the Other?

If your music library has swollen beyond 25,000 tracks and you want access to it anywhere, Cloud Player is the obvious choice. And if you use a Kindle Fire, an Android device, or a BlackBerry, or you want to stream music to a Sonos system, Cloud Player provides the means. Plus, if you sign up for a Premium plan, Amazon gives you 50GB of cloud storage.

iTunes Match, however, is no slouch. Its integration into iTunes, the iOS Music app, and the Apple TV make it more enjoyable than Cloud Player to use with them. It's also easier to set up than Cloud Player.

Which service wins? For more music and greater device compatibility, Amazon Cloud Player gets the nod. For a better experience on iOS, iTunes is your match.

Amazon Cloud Player vs. iTunes Match

FEATURES	AMAZON CLOUD PLAYER	ITUNES MATCH
Cost	Free (Cloud Player Free), $25/year (Cloud Player Premium)	$25/year
Allowed tracks	250 (Free); 250,000 (Premium)	25,000
Purchases count against total?	No	No
Matched download format	256-kbps MP3	256-kbps AAC
Matchable file formats	AAC, AIFF, Apple Lossless, FLAC, MP3, OGG, WAV, WMA	AAC, AIFF, Apple Lossless, MP3, WAV
Uploadable file formats	AAC, MP3	AAC, AIFF, Apple Lossless, MP3, WAV
Supported devices	Android, BlackBerry, iOS, Kindle Fire, Mac/Windows PCs (via Web browser), Sonos	Apple TV, iOS, Mac/Windows PCs (via iTunes)

Who's Still Not in the iTunes Store?

BY CHRISTOPHER BREEN



At one time in the history of online music, if you had dominated the *Billboard* charts during the 1970s and had lost at least one member of the band to one form or another of lifestyle excess, it was fashionable not to have your work gathered in the iTunes Store. And for a variety of reasons.

You were too big to be digitized and downloaded. Your timeless artistry demanded protection from the loss of quality that inevitably accompanies audio compression. You rejected having your masterwork sold off piecemeal by track. Or you felt your music was worth more than Apple's standard license fee.

Among the musicians who took this stance were the Beatles (individually and as a group), the Eagles, Led Zeppelin, Metallica, the Rolling Stones, and (after an early stint in the store) Frank Zappa. Now each and every one of them can be found in the iTunes Store. Yet the iTunes catalog is hardly exhaustive. A few artists continue to hold out, and the catalogs of some artists who are in the Store remain incomplete. Who and what are missing?

AC/DC: For many people, the Beatles' arrival in iTunes sealed the deal—the iTunes Store was the place to find all the digital music you desired. "Not so," said others. "For iTunes to truly rock, it must have AC/DC!" And it still doesn't.

Like Metallica before it, AC/DC firmly believes that its music should be listened to in album form rather than as scattered single tracks. Metallica eventually gave in. AC/DC has not.

Garth Brooks: The best-selling 1990s country star who made it so fashionable to jam your thumbs in your pants feels much the same way about iTunes as does AC/DC. He believes that his catalog should be sold in album form only. Apple, apparently, disagrees.

Kid Rock: "I kid you not," Rock might say. "If you want to download my stuff, you have to go to Amazon MP3, which



has agreed to sell it only by the album."

Tool: Grammy-award-winning metal alternative band Tool is yet another group that doesn't wish to have its music splintered into mixtape-ready pieces. Though you can purchase the band's CDs just about anywhere you like, digital downloads aren't available from any site.

King Crimson: A seminal progressive rock band of the 1960s, 1970s, and 1980s, King Crimson isn't very progressive about digital downloads (the cover of its debut album, *In the Court of the Crimson King*. is pictured at right). Robert Fripp, one of Crimson's founders and its constant leader, continues to work on the band's catalog—remixing the material as well as offering it on DVD in 5.1 surround sound and selling it and his solo work from his website. Fripp doesn't seem interested in compressed stereo versions of his music.

Def Leppard: Although rock band Def Leppard isn't entirely absent from the iTunes Store, dedicated fans will find very little to love. Currently the band's *Mirror Ball – Live & More* is available in both regular and iTunes deluxe versions, but that's as far as the catalog goes.

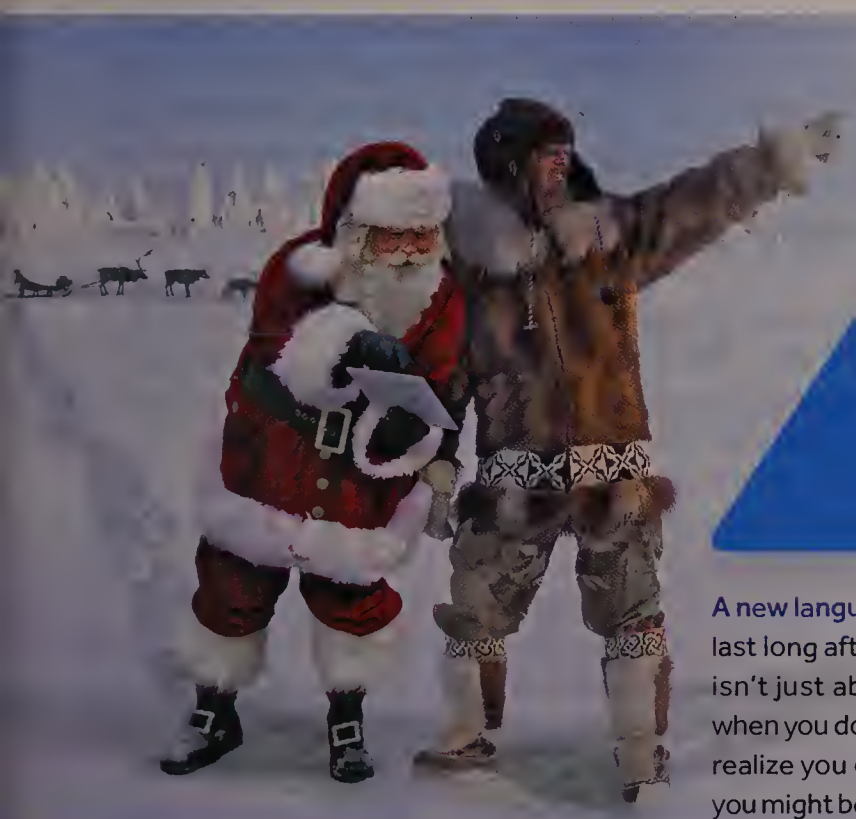
A Sea of Holes

The vast majority of popular music artists can be found on iTunes, but not so their complete catalogs. Aside from albums that have simply gone out of print, many



are missing because they never made the digital-delivery cut. They're available on CD but not in downloadable form. For example, Captain Beefheart's astonishing-for-its-time (and unlistenable-to-many) *Trout Mask Replica* can't be found. As for Bob Welch–era Fleetwood Mac recordings, sorry: The Stevie Nicks/Lindsey Buckingham AM radio iteration is well represented, but not the earlier works. Fans of pub-rocker-turned-crooner Nick Lowe will be sad to hear that his Cowboy Outfit efforts from the 1980s are unavailable for download. The Kinks? The band's earliest output is not to be had on iTunes.

Dig deeply enough, and you'll find many other gems that haven't made their way to iTunes. The good news (as the Beatles, Led Zep, and Zappa have shown) is that these holes may be filled eventually. Resurrecting older recordings—particularly when you're not concerned about packaging and shipping them—is more possible today than it ever was.



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Reviews

Home Entertainment Hardware, Software, and Accessories



Apple EarPods

●●●½; $29; Apple; www.apple.com

Apple's recently redesigned version of its classic earbuds, which it dubs EarPods, have an oblong, roughly teardrop-shaped silhouette. On my ears the EarPods fit worlds better than the old Apple earbuds did, and I think that will be the case for most other users.

In my initial tests, I was quickly impressed with the EarPods' audio performance. Bass sounded much cleaner, with distinct tones, though it was still muddy and lacked detail. Midrange sounds were decent but lacked detail as well. High frequencies were the standout, with a clear, natural sound that avoided the harsh, tinny quality of the previous earbuds' treble, and possessed enough volume to help them stand out against the EarPods' abundant but not especially high-quality bass.

For earbud-style headphones at this low price ($29), Apple's EarPods represent a fantastic upgrade over the previous model. The previous Apple earbuds got in the way of truly pleasant, comfortable listening; but the EarPods, while not enhancing the listening experience, don't detract from it, either.—R. MATTHEW WARD

iPods: Current Lineup

PRODUCT	SPECS	RATING	PRICE [1]	DISPLAY	PERFORMANCE	FIND CODE [2]
iPod Classic	160GB	●●●●	$249	2.5-inch color	36 hours of music playback; 6 hours of video playback	5262
iPod Touch 4th Generation	16GB	n/a	$199	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6553
	32GB	●●●●½	$249	3.5-inch color (Retina)	40 hours of music playback; 7 hours of video playback	6554
iPod Touch 5th Generation	32GB	n/a	$299	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	7967
	64GB	n/a	$399	4-inch color (Retina)	40 hours of music playback; 8 hours of video playback	7968
iPod Nano	16GB	n/a	$149	2.5-inch color	30 hours of music playback; 3.5 hours of video playback	7969
iPod Shuffle	2GB	●●●●	$49	None	15 hours of music playback	6550

n/a = not available. [1] All prices are Apple's prices. [2] In a browser's address field, typing a find code after *macworld.com/* takes you to a product's review or overview.



Velodyne vPulse In-Ear Headphones

●●●●½; $99; Velodyne; www.velodyne.com

Velodyne's $99 canalbud-style vPulse In-Ear Headphones split the difference, in design and price, between traditional earbuds and genuine in-ear-canal (canalphone) models.

The vPulse's earpieces have a cylindrical aluminum housing with an angled stem for the black eartips. A flat, fettucini-like black cable—to help prevent knotting—exits the earpieces, the left cable hosting an inline remote and microphone module. The Apple-style, three-button remote has a prominent (and mercifully easy to identify and press) center button for play/pause/call/end, plus flanking, flat volume-control buttons.

The vPulse offers big bass that doesn't get in the way of the rest of the music, surprises with a lovely midrange, and offers a functional design. I'd prefer the lows to be scaled back a bit, but the vPulse mostly makes its balance an asset. I recommend it if you're shopping in the $100 price range, unless you're certain that you want more-neutral performance.—R. MATTHEW WARD

Logitech Ultimate Ears 350vi Noise-Isolating Headset

●●●½; $60; Logitech; www.logitech.com

Logitech's $60, canalbud-style Ultimate Ears 350vi Noise-Isolating Headset has spherical earpieces with a protruding stem for the included eartips; a cable exits the device at a 90-degree angle.

Its predecessor, the MetroFi 220vi, offered relaxed and well-balanced sound, with just a bit of bass warmth. The most obvious feature of the 350vi is its big bass, which dominates the sound in general and overwhelms the relatively low-detail and textureless midrange frequencies. High frequencies exhibit impressive detail (albeit with occasional harshness) and enough volume to avoid being overwhelmed by the bass.

The Ultimate Ears 350vi is an attractive buy, especially given its three-button remote and headset functionality. However, its domineering bass makes it difficult for me to recommend except to listeners who like hip-hop, dance, or electronic music and want to hear a big, thumping, clublike bass.—R. MATTHEW WARD



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Hot Stuff

What We're Raving About This Month



Bloc for Apple TV

Admittedly, we don't see accessories for the Apple TV come along terribly often, but the $39 Bloc for Apple TV is a welcome exception to the rule. It's a wooden tray—available in cherry, maple, or walnut—with slots for both the Apple TV and its remote control. The device lets you create a permanent resting spot for your Apple TV. It prevents the perhaps-too-small-and-light device from being pulled behind your entertainment center by heavy cables. Also, it helps you avoid losing the remote in the crevices of your couch (blocs.tv). —JOEL MATHIS

JBL Cinema SB200



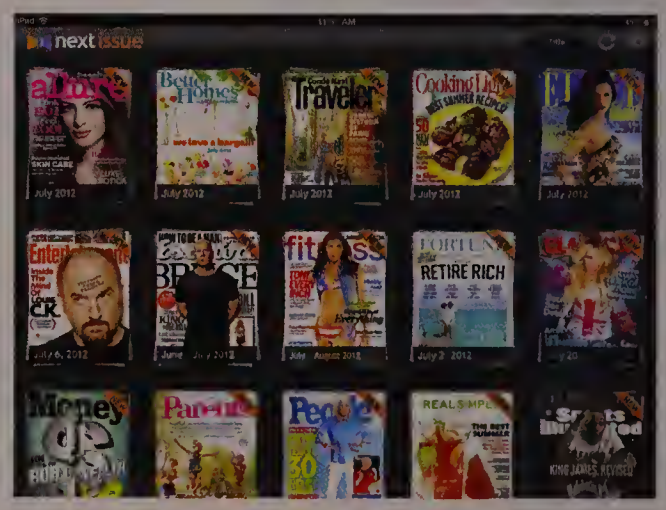
JBL's $299 Cinema SB200 is a soundbar that performs double duty in your home-theater setup. It offers two 3.5-inch woofers and two 1-inch tweeters to provide ample bass and strong sound, plus a 120-watt amp to power those speakers. And built-in Harman Display Surround technology attempts to re-create a 3D sound experience from stereo speakers. What makes the SB200 especially interesting is that it's both a direct-connect soundbar whose purpose is to improve the sound from your HDTV and a Bluetooth-enabled speaker set designed for streaming music from an iOS device or computer (www.jbl.com).—JONATHAN SEFF

Roku App Update

Like the Apple TV, Roku hardware lets you stream video content to your TV. The latest versions of the remote control apps for iOS and Android add a new feature called Play On Roku for streaming photos (JPG or PNG) and music (MP3 or M4A) from a smartphone or tablet to your TV through a Roku hardware player (similar to AirPlay on the Apple TV). With Play On Roku, you can advance through photos with a swipe of your mobile device's screen, or enable a slideshow (with musical accompaniment). For music, your TV will display a screensaver that shows artist, album, song title, and cover art. The feature works with Roku 2, Roku LT, and Roku HD (model 2500R) units, as well as with the upcoming Streaming Stick (www.roku.com).—JONATHAN SEFF

Next Issue Expands iPad Titles

What's better than an all-you-can-read magazine service for your iPad? The addition of almost three dozen more titles for the same monthly price. Next Issue—a joint effort from five of the biggest magazine publishers—has added 33 titles to its Netflix-like subscription offering for iPad users. New titles include *Cosmopolitan*, *Details*, *Food Network Magazine*, *O: The Oprah Magazine*, and *Road & Track*. For $10 a month, Next Issue offers its assortment of monthly magazines, which shot up from 33 titles to 66. For $15, you also get the weekly and biweekly offerings (the only addition to the five previous titles there is *Golf World*). Although Next Issue also offers access on select Android tablets, the recent expansion applies only to iPad users (www.nextissue.com).—JONATHAN SEFF

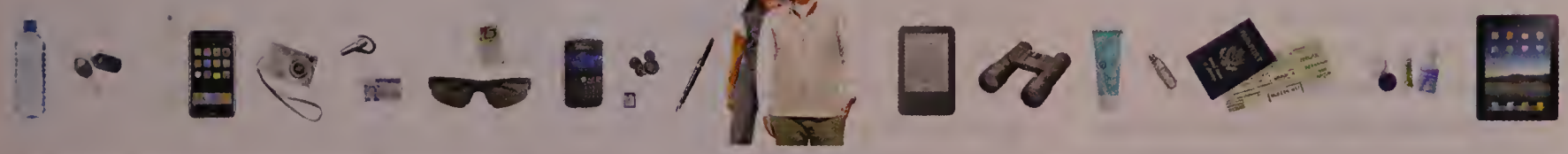


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Keeping it Simple Photoshop Elements 11 has a simplified interface with large, colorful icons on an easy-to-read background. Guided edits walk you through photo adjustments and enhancements.

Adobe Launches Photoshop Elements 11 and Premiere Elements 11

BY JACKIE DOVE

Adobe is shipping version 11 of its Photoshop Elements and Premiere Elements desktop software for Mac and Windows. This photo and video editing duo—joined by a free helper app called the Organizer—lets users manage, edit, create, and share photos and videos in a variety of ways.

Friendly, Streamlined Look

The Elements programs share a streamlined, updated interface. They default to a friendly, light-gray background with a redesigned set of larger, more colorful icons than the previous version. Overall, the interface has a cleaner, more open look than in the past, with a simplified, visual way of organizing and searching for photos and videos via the Organizer's People, Places, and Events tabs. The new Elements offers fewer top-level navigation choices and commands, while reorganizing and adding new features.

As always, the Elements package is aimed at craft-oriented consumers and hobbyists who want their growing collection of images and videos to look nice and to be usable for projects such as cards, calendars, and photo books. The Photoshop and Premiere Elements features are designed to have an easy point of entry for novices doing simple tasks, but also to invite users to tackle more complex projects.

With these new versions, online sharing opportunities have changed somewhat. Adobe now partners with Vimeo and CEWE (macworld.com/8011) in Europe; but not surprisingly, the Kodak Gallery is gone.

Photoshop Elements 11

Upon launching Photoshop Elements 11, users see an uncluttered, unintimidating interface that lets them choose among Quick (basic), Guided, and Expert modes. In each mode, a rollover set of previews shows the effect a choice will have on an image. A slider also offers these choices.

Photoshop Elements has added four guided edits to version 11. The new Vignette Effect guided edit walks you through a quicker and simpler way of adding and adjusting vignettes.

The new Tilt-Shift guided edit mimics the effect of a tilt-shift lens, which creates a blurring effect. Photoshop Elements 11 helps users achieve this popular look by blurring the top and bottom of a photo so that the subject appears smaller.

Other new guided edits create High Key and Low Key effects, which are often achieved by lighting in the original scene. Photoshop Elements' High Key effect gives a photo a bright, low-contrast look; the Low Key effect darkens a photo to add drama and contrast.

New filters in Photoshop Elements let you convert photos into illustrations in various styles, such as comic, graphic novel, and pen-and-ink.

Besides adding the new editing modes, Adobe has enhanced some older features, such as Refine Edge, actions, and flexible layouts for cards, scrapbook pages, calendars, and other items.

Premiere Elements 11

Premiere Elements is the Photoshop Elements analog for editing home movies. The new version provides a more intuitive editing environment, augmented by cinematic styles, special effects, and a streamlined set of editing modes.

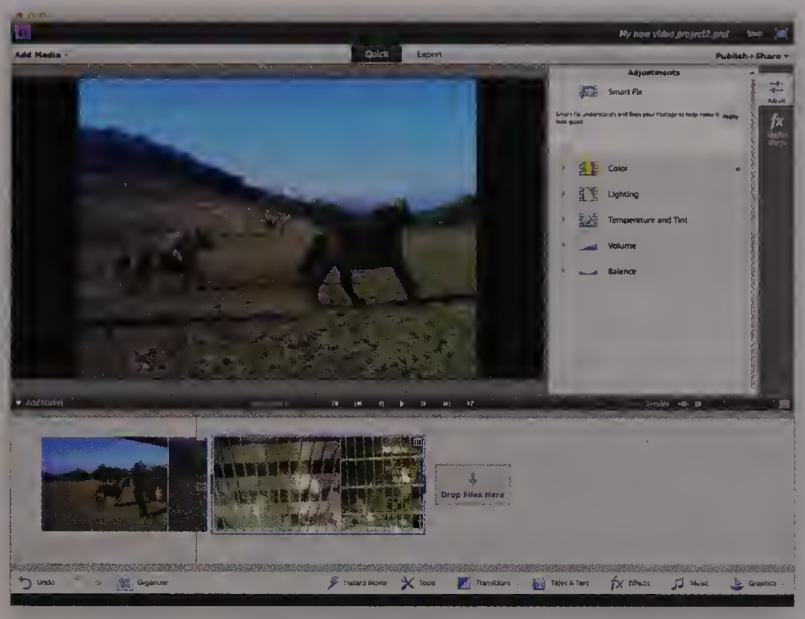
New features include a color adjustment tool, Hollywood movie styles, the ability to slow down or speed up action, photo-blending techniques, and the ability to share videos and slideshows on Vimeo (vimeo.com) as well as on Facebook and YouTube.

The program offers Quick and Expert editing modes and the addition of creative transitions, effects, and styles to footage. The InstantMovie feature automatically edits a set of clips together with coordinated music, titles, effects, and transitions from included movie themes. New customizable themes include Baby Clouds, Picture Cube, Prime Time, and Yearbook.

The FilmLooks feature lets users create distinctive visual looks for their footage via drag and drop. Some 12 new looks, such as Old Film, Hollywood Movie, and Pandora (think *Avatar*), are included.

The Organizer

The Organizer is where all elements from both the image editing program and the video editing program come together.



Fix Your Movies Premiere Elements 11 gives you plenty of ways to tweak your videos.

New Organizer views let you sort images and video according to people, places, and events. You can also apply keywords and tags, and use smart tagging to help with photo and video searching, as in previous versions.

The People view filters a library down to videos and photos that have a particular person in them. You can organize people into groups—family, friends, colleagues, say. Then you can drill down and see all of the photos and videos you've tagged for a particular person.

The Places view integrates with Google Maps to facilitate organizing and searching by location. The Organizer stacks video clips and photos based on where they were taken, and it displays stacks related to that location on the Map. Use the Map to zoom in to a location and see what videos and photos were taken there. If a photo or video does not have a geotag, you can use the Organizer to tag it.

In the Events view, a new built-in calendar enables you to filter events by date.



View Images by Location A redesigned Organizer gives you a way to find your images and videos according to where they were shot.

Mac and Windows Differences

Despite the overall similarity between the Mac and Windows versions of the new Elements, disparities in functionality still exist between the platforms.

The ability to create slideshows complete with captions, pan and zoom effects, transitions, voice narration, and music is a Windows-only option. Similarly, the ability to send a personalized, themed photo email with captions and backgrounds, and the ability to create mini-movies by stringing together a series of still shots, are restricted to Windows only.

Requirements and Availability

Adobe Photoshop and Premiere Elements work on multicore Intel Macs running OS 10.6 and higher. The software is available now from Adobe's website, and from various retail outlets such as Amazon.com, B&H Photo and Video, Best Buy, Costco, NewEgg, Office Depot, and Staples.

Photoshop Elements and Premiere Elements are $100 each, with an upgrade price of $80 each. Alternatively, you can buy them both as a bundle for $150. The bundle's upgrade pricing is $120.

Academic pricing for students, faculty, and staff in K-12 and beyond is available from Adobe Authorized Education Resellers and the Adobe Education Store (macworld.com/8000). Information on volume licensing is available on Adobe's website (macworld.com/8001).



Looks Familiar
An iMovie project, imported into Final Cut Pro X, comes complete with titles, transitions, cutaway shot, and music track. Final Cut Pro X's interface looks quite like iMovie's.

How to Transition From iMovie '11 to Final Cut Pro X

BY MARK SPENCER

iMovie '11 is a great application for getting started with video editing. It's intuitive, it includes high-quality templates and simple effects, and it can handle most basic editing tasks. And since it's part of Apple's iLife '11 suite on every new Mac, the price can't be beat.

Exit iMovie, Enter Final Cut Pro X

But iMovie does have limitations you may bump up against before long. For example, you can add only one, nonadjustable video effect per clip. The tools for manipulating audio are limited, and editing is pretty much a drag-and-drop affair, which can be slow and inaccurate. To expand your editing horizons, you may want to consider upgrading to Final Cut Pro X.

Just as an amateur photographer can move up from iPhoto to Aperture, or a budding musician can move from GarageBand to Logic, anyone who edits video can move from iMovie to Final Cut Pro X.

On the surface, the new Final Cut Pro looks and acts much like iMovie. Underneath, however, is a powerful, professional editing application with a deep feature set—which is why it costs $300. It can import iMovie projects, so you can take a project you started in iMovie and open it in Final Cut Pro. There, you can take advantage of a greater variety of adjustable titles, transitions, and effects; faster, easier editing with keyboard shortcuts; more-powerful color-correction and audio tools; advanced green-screen keying; multilayer compositing; multicamera editing; and third-party plug-ins.

Import a Project

I created a short iMovie project from a shoot at a local winery. I used one of iMovie's project themes, which includes title animations and transitions, and then I adjusted audio levels, color-corrected a few shots, time-reversed the closing sunrise shot to make it look like a sunset, and added a music track. I also used iMovie's Advanced Tools to add a cutaway shot over the interview clip.

To import an iMovie project into Final Cut Pro X, choose *Import → iMovie Project* from Final Cut's File menu, and select the project. To get access to the Event, select *File → Import → iMovie Event Library*.

The iMovie project, imported into Final Cut Pro X, comes with titles, transitions, the cutaway shot, and the music track.

Final Cut Pro X's interface looks quite like iMovie's. It uses the same concepts of events and projects; and many iMovie functions work in Final Cut Pro X as well.

The project appears in Final Cut Pro X exactly as it did in iMovie, but you can't import iMovie's trailers or animated maps.

Improve Your Video

One way you could use Final Cut Pro X to enhance your iMovie project: The program's Color controls let you manipulate the look of your video far beyond what is possible in iMovie.

Also, a feature called Balance, when enabled, analyzes the brightness and color values of a shot, and then automatically adjusts those values as needed to create dark shadows and bright highlights, and to remove any color cast that the shot may contain due to an improper white-balance setting. To enable it, simply click the *Balance* checkbox.

The Color Board

The Balance feature doesn't let you make adjustments beyond simply turning it on and off. That's where Final Cut Pro X's Color Board comes in. It gives you complete control over a shot's color, saturation, and exposure—and you can limit adjustments to specific tonal ranges.

Using the Color Board, you can quickly give a shot a warmer or cooler feel, create a black-and-white effect, and more. You make these changes by dragging around "pucks" on each "board."

The End

With a familiar user interface and editing methodology, and the ability to import your iMovie projects complete with titles, transitions, and effects, Final Cut Pro X gives iMovie users a compelling way to achieve more-professional-looking videos—and have fun in the process.

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Raw vs. JPEG: Which Should You Shoot and When?

BY WILLIAM PORTER



Raw + JPEG A JPEG straight from the camera (left); the best version achieved by processing the Raw file in Adobe Photoshop Lightroom 3 (center); and the result from the amazing, Mac-only Raw Photo Processor version (right).

Your digital SLR or high-end compact camera lets you save your photos as Raw files or as JPEGs (see macworld.com/8002). Which format should you pick?

It All Starts With Raw Data

Every digital camera's sensor generates raw data. The question is, what happens to that data? If you have a point-and-shoot camera, you may not have a say in the matter. But if you have a high-end compact or a DSLR, you do.

So, do you let the camera's processor convert the raw data into a universally recognizable JPEG file? Or do you ask the camera to save all the raw data in a Raw file for processing on your computer?

A camera's Raw files have what seems at the outset to be a decisive advantage: They preserve considerably more data than the JPEGs made from them.

Retaining more data means having more options during post-processing. Working with a Raw file, you'll have a greater chance of recovering highlights in overexposed clouds, rescuing detail from areas of shadow or darkness, correcting white balance problems, and so on.

And by keeping the Raw originals, you'll have more than one chance to perform the conversion. If you have the Raw file, you can go back to it much later and make a new and possibly better JPEG from it. (Raw processing technology has improved over time.)

If you let the camera handle the Raw-to-JPEG conversion for you and discard the Raw data, you don't get any do-overs.

So why doesn't everybody save Raw files? One reason used to be that Raw-to-JPEG conversion was difficult; and even today it takes a little extra effort to use a premium, dedicated Raw converter such as the awesome Raw Photo Processor (macworld.com/8003). But if you have good photo-processing software, working with Raw image files is usually no more arduous than working with JPEGs.

The other knock against Raw files is that they're bigger—sometimes much bigger—than high-resolution JPEGs. But generally the size of Raw files isn't much of a problem these days.

Nevertheless, there are a few reasons to consider letting your camera do the Raw-to-JPEG conversion for you.

In the first place, all Raw files require some processing on the computer. But with JPEGs, you may be able to use photos directly from the camera.

And in-camera JPEGs are often extremely good. Practically all DSLRs on the market—and most high-end compact cameras, too—produce richly detailed JPEGs of excellent quality.

The Soup Thickens

Some new cameras have special processing features that are available only if you let the camera save JPEGs. Features such as multiframe noise reduction, sweep panorama (found in Sony cameras), and lens distortion correction, as well as creative effects such as in-camera black-and-white or "watercolor" are simply unavailable for Raw files.

Is the Answer 'both A and B'?

Your camera may have a compromise option: Raw + JPEG. This choice generates two files for each shot you take: one Raw and one JPEG. This means duplicate master files—an organizational headache. Still, the option is there. Ultimately, deciding between Raw and JPEG remains annoyingly difficult. And the question now seems to have no single right answer.

PHOTOGRAPH BY WILLIAM PORTER

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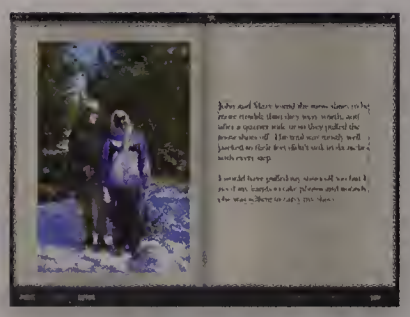


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Reviews

Hardware, Software, and Accessories for Your Creative Endeavors



Software

Pholium for iPad

★★★½; free; Pholium; pholium.com

Pholium is a free iPad app for creating virtual books of your photos. The app, in turn, is linked to an online service that lets you share your books with friends. Pholium 1.3 brings major improvements.

You begin by importing photos into Pholium's Gallery, using the iOS photo picker to select photos—the thumbnails in the photo picker are tiny. I finally organized everything outside Pholium into a single folder and then imported images one at a time.

The Gallery provides a few modest photo editing tools, but I recommend editing before you import. You will use Pholium's photo picker to place photos from the Gallery into the pages you build.

In the Pholium Studio, you can create a blank book, in which you place the images anywhere you like, or you can have the program place images on the pages for you, selecting from one of the basic page layout options.

Either way, you'll be asked if you want to use the Classic or the Modern style. The Classic style looks like a real book, with a faux gutter separating the left page from the right, and with soft pages that turn like the pages in iBooks. The Modern style, new in version 1.3, removes the faux gutter, and the pages seem stiff as they turn.

You can create as many pages as you like in a Pholium book. When you're done, you can place a photo and/or a caption field on the outside back cover as well. Click *Done* to close the book editor; click *Review* to flip through "the page proofs."

Pholium 1.3 lets you add text to the inside pages. The tool for this is labeled Caption, but you can use a caption box to enter any text you like, from a simple title for a photo, to a short paragraph or two.

You can now publish your book to your Pholium Library. Once you have published a book, you cannot edit it further. But you can use the Copy command to make an editable copy of the book.

After a book has been published, you can send it to as many people as you like for free, but you can send it to only ten people at a time.

Recipients get a link that will let them download your Pholium book to their iPad and open it in their own copy of Pholium. If they don't have an iPad or if they don't want to download Pholium, they will receive a link to a webpage that displays something that looks like your book.

Pholium presents your photos in a distinctive way, and even if you don't send your photos to anybody, making a book with Pholium is a lot of fun.—WILLIAM PORTER



Layout for iPad

★★★½; $2; Juicy Bits Software; juicybitssoftware.com

If you thought photo collages were a thing of the past, think again. They died for awhile, but now they're coming back to life with major digital mojo. Layout, a photo-editing app for iPad 2 or later, helps you create and share photo layouts for simple, convenient collage storytelling.

Layout gives you control over your collage's look, from background and border thickness to aspect ratio and photo fill settings. The program ships with fully editable preset templates, but you also have the option to construct your own from scratch. I found that it was way more fun to swipe and cut my own layout.

Juicy Bits Software takes full advantage of the iPad's touch gesture abilities by letting you pinch and zoom in to your photos, and drag and reposition them within each frame. The program's included face-detection utility zooms in to faces, but it does so to such an extreme that even some photos I shot in close-up with a DSLR looked grainy.

Though the range of possible edits is extensive, I did have some issues with the Photo Editor. When you go to a different section and apply edits, you must remember to tap the *Done* button in order to exit the Photo Editor.

The Photo Editor has no Undo/Redo function, which can be annoying if you're layering edits. Furthermore, if you apply an effect and later want to revert to the original image, you must either re-import the image or go to the main screen and tap *Undo* to get back to the desired editing stage.

Although more-flexible text and editing features would be welcome, Layout delivers on its basic promise of minimum effort, quick results, and finished products that are easy to share.—BRIE HIRAMINE



TypeStyler 11

★★★★; $60; Strider Software; typestyler.com

TypeStyler's last major upgrade occurred in 2009, and it was huge. Version 11 doesn't add as many fantastic new features, but Strider Software has lowered the price by two-thirds, from $180 to just $60.

TypeStyler debuted more than 20 years ago, and it remains an excellent tool for creating eye-catching text effects for logos, headlines, and packaging. In addition, TypeStyler has object-drawing and page-layout capabilities, making it a good tool for single-page layouts such as flyers, ads, and invitations.

TypeStyler also includes powerful tools for mocking up 3D packaging designs. If you create presentations or DVDs, this feature alone makes TypeStyler worthwhile. But the 3D Visualizer—an optional tool—works best with powerful graphics cards, such as those found in the latest Macs.

The new, customizable grunge styles, social media export capabilities, and tutorial/help systems are welcome improvements, and the combination of those useful features with the dramatically lower price gives TypeStyler 11 the highest value of any release of the software so far—and makes it a welcome addition to the toolkit of any designer.—JAY J. NELSON

Top Products

YOUR GUIDE TO THE BEST HARDWARE WE'VE TESTED



CAMCORDERS
High-Definition

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
Bloggie Live (pictured) www.sony.com	♦♦♦♦	$180	Full HD	7821
HMX-Q10UN www.samsung.com	♦♦♦♦	$163	Full HD	7617



DIGITAL CAMERAS
Point-and-Shoot

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
PowerShot G12 www.canon.com	♦♦♦♦½	$400	10-megapixel	7820
PowerShot SX260 HS (pictured) www.canon.com	♦♦♦♦	$280	12-megapixel	7879



DIGITAL CAMERAS
SLR

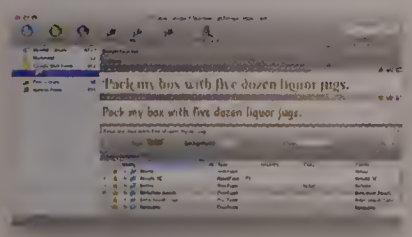
PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
D7000 www.nikon.com	♦♦♦♦½	$1000	16-megapixel	7618
EOS Rebel T3i (pictured) www.canon.com	♦♦♦♦½	$650	18-megapixel	7190
Olympus OM-D E-M5 www.olympusamerica.com	♦♦♦♦½	$999	16-megapixel	7878



PRINTERS
Inkjet

PRODUCT	RATING	PRICE [1]	TYPE	FIND CODE [2]
Officejet Pro 8000 Wireless www.hp.com	♦♦♦♦	$180	desktop	7876
WorkForce Pro WP-4020 (pictured) www.epson.com	♦♦♦♦	$104	photo	7819

[1] All prices are the best current prices taken from a PriceGrabber survey of retailers at press time. [2] In a browser's address field, typing a find code after macworld.com/ takes you to a product's review or overview.



Suitcase Fusion 4

♦♦♦♦; $99; Extensis; extensis.com

In this update, Extensis has focused on streamlining the process of experimenting with and activating fonts, especially from within Adobe Creative Suite applications. It has also enhanced the program's ability to provide designers with Web fonts.

Version 4 adds a new Extensis font panel to Adobe InDesign, Illustrator, and Photoshop that lets users work with fonts and sets without having to leave those applications and open Suitcase. The panel lets you apply any font to a selection; if the font isn't currently active, Suitcase will activate it. And unlike in Suitcase's main interface, the Extensis font panel within Creative Suite allows you to see and activate fonts from multiple libraries.

This capability is a welcome and necessary improvement, since Suitcase now also lets you work with Web fonts from its own WebInk service and the free Google Web Fonts.

Designers who work predominantly in Adobe InDesign, Illustrator, and Photoshop will find Suitcase Fusion 4's new font panels a real timesaver. Web designers will appreciate this version's unique integration with Extensis's WebInk fonts and Google Web fonts. Users of Adobe InCopy will welcome its new plug-in for precise (and automatic) font activation. Cross-platform teams will appreciate having identical feature sets on Macs and on Windows. And all existing Suitcase users will enjoy the new Favorites feature, the colored font previews, and the more accessible interface.

In short, Suitcase Fusion 4 is a software upgrade well worth having.—JAY J. NELSON

Help Desk

Answering Your Questions and Sharing Your Tips About Getting the Most From Your Mac

Mac OS X Hints

The insider tips you won't get from Apple.

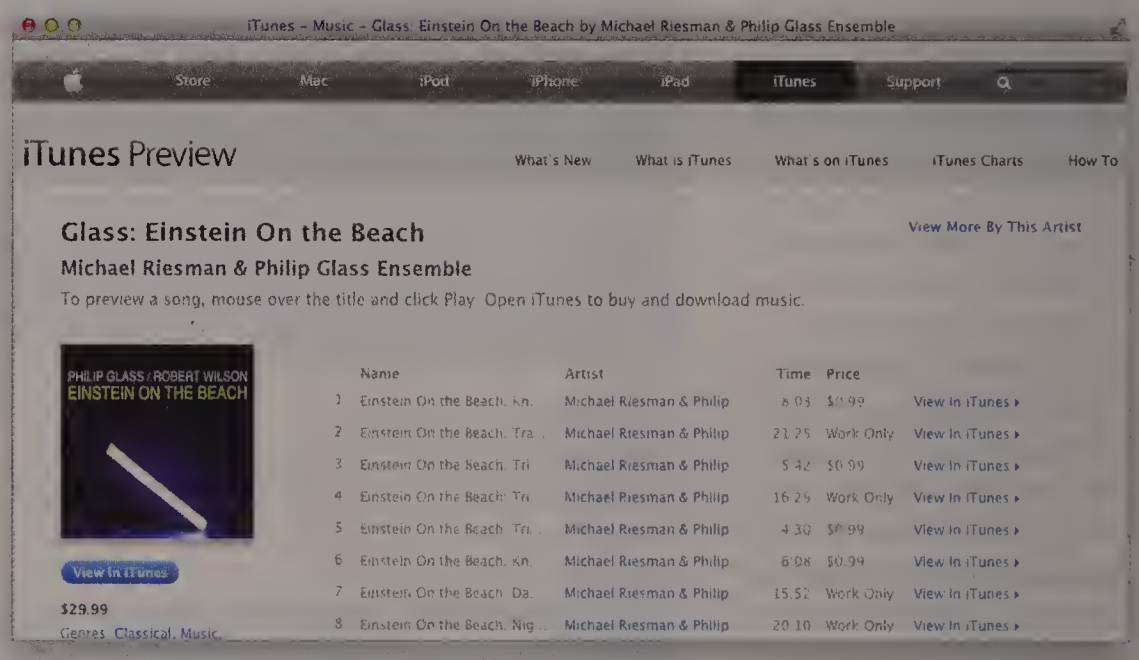
BY KIRK McELHEARN

Browse Apple Stores Efficiently

Browsing the Mac App Store or the iTunes Store can be annoying if you're used to tabbed browsing. In either store, you can view only one page at a time—so if you want to check out a number of items, progress is slow and laborious: Click, back arrow, click, back arrow, and so on.

To simplify checkout, drag icons from the Mac App Store or iTunes Store to your browser or onto the browser's icon in the Dock. You'll get most of the information in the browser that you'd get in the store. To view multiple store pages in your browser, open a new tab before dragging.

To search for stuff in either store in your browser, construct a search formatted as `search_terms site:itunes.apple.com`. You might type `Einstein on the Beach site:itunes.apple.com`, for example. In response you'll get a number of hits, for different countries with access to the iTunes Store or Mac App Store. If you like, you can limit the search to a specific country, by typing, say, `Einstein on the Beach site:itunes.apple.com/us/` (the two letters between the slashes are the country code).



Just Browsing To speed up your online shopping, drag icons from the iTunes Store or Mac App Store into your Web browser.

Drag Folders and Files to Change Directories in Terminal

In Mountain Lion, if you hold down the ⌘ key while dragging an icon to a Terminal window, it will switch directories (type `cdcd` followed by a letter space, and then drag the folder or file into Terminal). This will help you save time when you want to act on files in Terminal that you've been examining in the Finder.

Customize the Share Menu in Mountain Lion

The new Share menu in Mountain Lion is handy, but it's not smart enough to know better than to propose sharing via services you don't use. Fortunately, you can remove unwanted items from that list, but the procedure isn't for the faint of heart.

From the folder /System/Library/PrivateFrameworks/ShareKit.framework/Versions/A/Resources/, copy the file `SHKServicesOrder.plist` to a folder where you have write permission. Duplicate it, and keep a copy of the original in case you subsequently want to revert to the standard Share menu.

Now open the new file in a text editor, and erase the lines that correspond to services you don't use. Save the file, and copy it back to the folder noted above. When asked if you want to overwrite the file, click *Yes* and provide an admin password. You may have to log out and back in for the changes to take effect.

Note that changes of this kind may not survive a system update. The Share menu should be user-configurable; basing it on accounts set up in the Mail, Contacts &

Have a Hint to Share?

Navigate to MacOSXHints.com to submit it. This month's column was based on tips from Franck Guadagnini and anonymous contributors. Each month, the author of our favorite reader-supplied tip is eligible to receive a *Help Desk* mug.



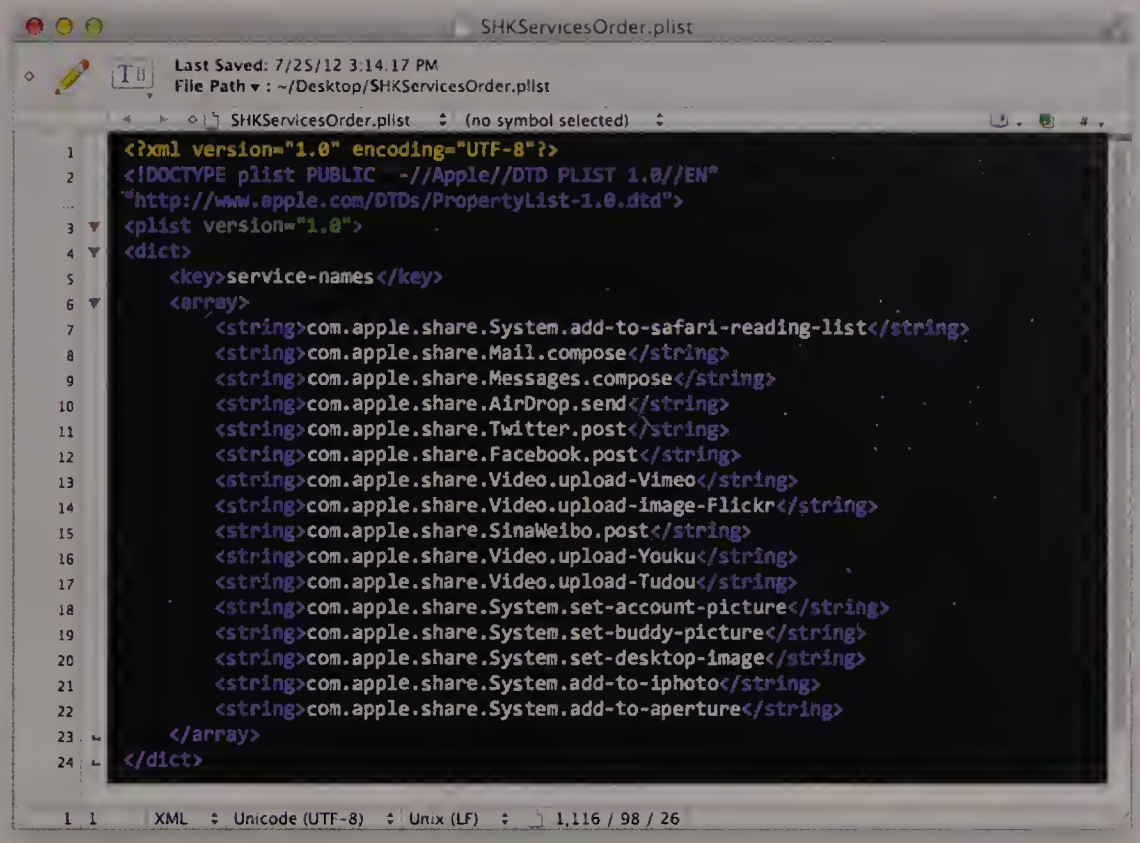
MUG PHOTOGRAPH BY PETER BELANGER

Calendar preference pane would probably make more sense. Having a way to add accounts that aren't hard-coded into the system would also be great.

Subscribe to Non-iTunes Podcasts in the Podcasts App

Apple's recently released Podcasts app for iOS (macworld.com/a/1167438) isn't perfect; but if you like podcasts, you may find that it handles them better than the iOS Music app does. (Many third-party alternatives could say the same thing.)

From looking at the Podcasts app, you might think that you can't subscribe to podcasts outside Apple's iTunes Store. In fact, you can, but the method for doing so is not intuitive: When viewing a podcast in the Podcasts app, you'll see a black bar at the base of the window, with a Search field to the right. Paste a podcast URL into this field and tap *Search*. A dialog box will ask if you want to subscribe to the podcast. Tap *Subscribe* to add it to your list.



Remove Services By editing this preferences file, you can instruct Mountain Lion to suggest using only the subset of sharing services that you ever actually want to use.

Trim Podcast Intros With AppleScript

Speaking of podcasts, many of them open with a long intro that you have to wait through every time you listen. If you listen to a podcast regularly, sitting through its intro each time can be trying. A *Hints* reader devised an AppleScript that trims intros. The original script acted on a playlist, but Doug Adams, of Doug's AppleScripts for iTunes (dougscripts.com/itunes), tweaked it to work on selected podcasts, instead of on a playlist.

First, time the length of the intro. Once you've identified that value in seconds, you can adjust the line in the script that says `set start of t to 90.0` to the specific number of seconds you want to skip. This trimming is not destructive; it merely adjusts the point at which the podcast begins to play. If you want to undo the change, simply change the seconds value from `90.0` (or whatever number you specified) to `0.0` and rerun the script.

Code Box: Podcast Trimmer

```
property my_title : "Trim all tracks in a playlist"
tell application "iTunes"
     set theSelection to selection
     with timeout of 300 seconds
          repeat with aTrack in theSelection
               my reset_this(aTrack)
          end repeat
     end timeout
end tell

to reset_this(t)
     tell application "iTunes"
          try
               set start of t to 90.0
          on error m
               log m
          end try
     end tell
end reset_this
```

Tell Siri to Use Celsius

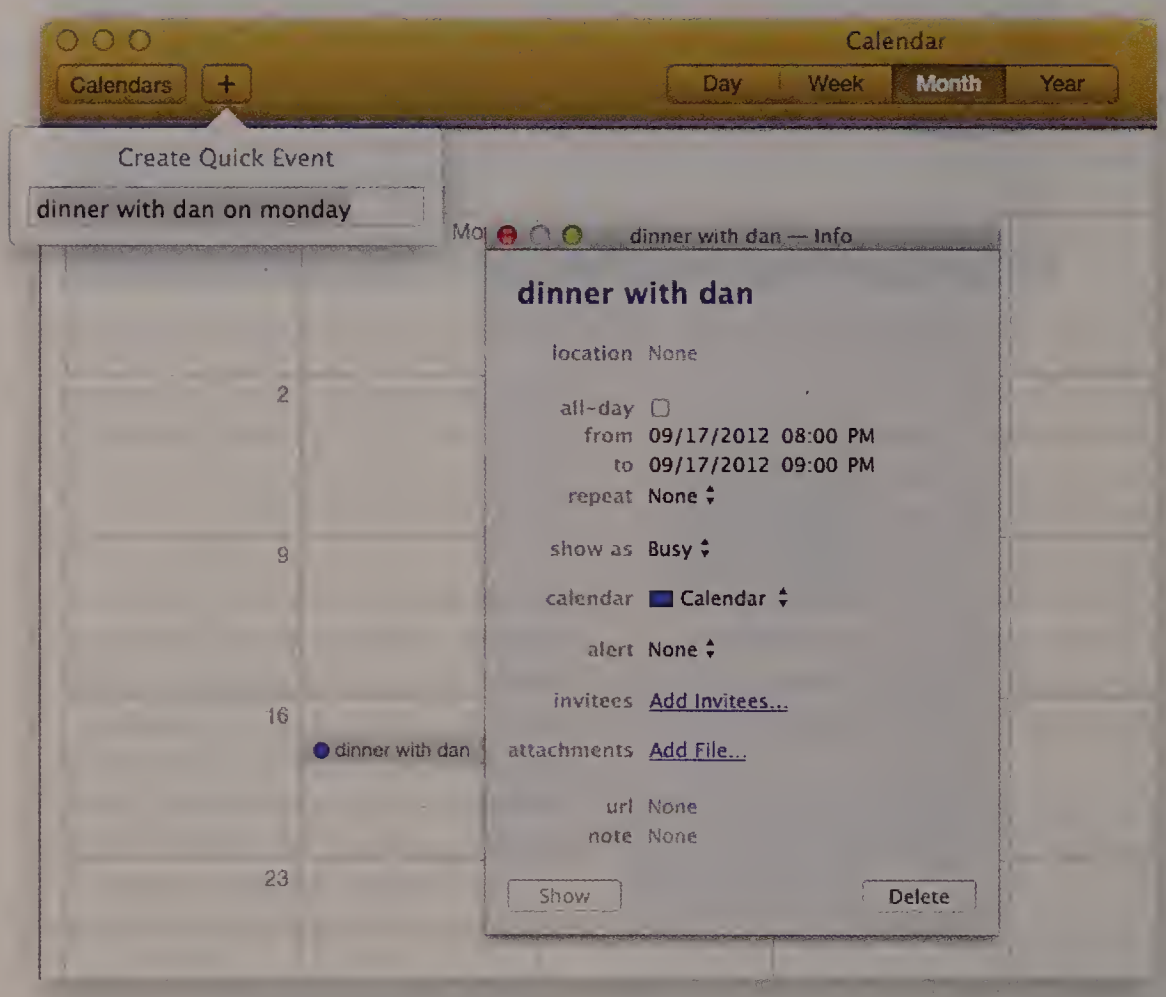
Even if you live in a country that uses the Celsius scale for temperatures, if you ask Siri on your iPad to indicate the temperature, it will report the reading in Fahrenheit degrees. Oddly, this isn't the case with iPhones—perhaps because you set a preference for Celsius or Fahrenheit in the iPhone's Weather app. Since the iPad doesn't have a Weather app, it doesn't provide a place to specify that preference.

Fortunately, you can arrange to have the iPad give you the temperature in the scale you prefer: Open *Clock* and tap *Edit*. You'll see two buttons at the bottom of the clock list, one for F and the other for C. Select the one you want, and Siri should make the switch.

Mac 911

Solutions to your most vexing Mac problems.

BY CHRISTOPHER BREEN



Make a Date Use Calendar's Create Quick Event feature to insert events easily.

Create Calendar Events More Efficiently

Q: My Mac runs Mountain Lion, and I have to fiddle with events after I create them in Calendar—changing all-day events to events that last a couple of hours, for example, and changing their start times. Is there a way to create events so I don't have to spend so much time editing them?

Caroline Anders

A: First let's review how Calendar creates events. If you double-click a date while you're in Month view, you'll create an all-day event by default, unless you enter a time or specific event in the New Event field, such as **`Meeting with George 3 PM`** or **`Lunch with Dan`**. Otherwise, if your intention was to create an event that lasts just an hour, you'll have to edit the event. If you want only an hour-long event, change to Week or Day view and double-click a time. An hour-long event will be created at the time you chose.

Although you may be accustomed to double-clicking dates or times to create events, the Create Quick Event feature is worth checking out. Press ⌘-N or click the *Plus* button at the top of the Calendar window, and enter an event along these lines: **`Lunch tomorrow Dan`**. Then press <Enter>, and a new event with that title will be created for noon of the next day. Try **`Dinner Tomorrow Dan`** and an event will be created for 8 p.m. the following night.

Calendar is smarter than iCal in this regard, but it isn't as smart as Flexibits' $15 Fantastical (macworld.com/7957). Using that app, you can enter **`Lunch tomorrow 1 - 3 Jason San Francisco`**, and Fantastical will create an event exactly along those lines, making San Francisco the location. Calendar, on the other hand, will get the time right, but it will make "San Francisco" rather than "lunch" the name of the event, and it won't add the location.

If you'd like to change the default alert time for timed events as well as all-day events, you can do so within the Alerts tab of Calendar's preferences. Choose an Account (*iCloud,* for example) from the Account pop-up menu, and configure the Events and All Day Events pop-up menus. For example, rather than adopting the usual default of '15 minutes before', you can choose from such options as '30 minutes before', '1 hour before', '1 day before', and '2 days before'. All-day events are more limited, allowing you to choose 'On Day of Event (9 AM)', '1 Day Before (9 AM)', '2 Days Before (9AM)', or '1 Week Before'.

Have a Problem?

Go to the Mac 911 forum (macworld.com/2467) to ask about your misbehaving Macs and applications.

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Disable Google Auto-Updates

Q: I recently installed Little Snitch to help me resolve some network problems I was having. When I looked at the app's Network Monitor window, I couldn't help but notice that Google Software Update, Google Software Update via ksfetch, and GoogleSoftwareUpdateDaemon appeared many times. What are these things, and do I need them?

Bill Carmichael

A: As their names imply, these processes automatically work in the background to keep your Google software up to date. But annoyingly, Google Software Update typically installs new updates without asking the user for permission to do so.

And Google requires that this hunk of updater be installed. For example, when you install Google Earth, you'll see a notice that, as part of that installation, you must also install Google Software Update. In effect, if you want Google Earth, you have to agree to let Google automatically install updates without consulting you first.

Without donning a tinfoil hat, I would note that Google's record of respect for its users' privacy is hardly unblemished. And while I don't suspect Google of using this mechanism for unsavory purposes, I object to any software that downloads and installs things on my Mac without giving me the option of examining what they are in advance. Fortunately you can have your cake and keep Google's fork out of it, too.

If you're running Lion or Mountain Lion, hold down the Option key and choose *Library* from the Go menu. The now-visible Library folder contains a Google folder. Open it and inside you'll find the Google Software Update folder. You could delete this folder and thereby disable the updater; but the next time you run something like Google Earth, the software will reinstall the updater.

So don't bother. Instead, download Wireload's free Google Update Uninstaller (macworld.com/7958). Launch the resulting GUU package file, and the Google Update Uninstaller application will appear in your Applications folder. Run it, and the application will not only remove the Google installer, but also place a small locked file in the Google folder to prevent installation of a fresh copy of the updater on your Mac.

Of course, if you do disable Google Software Update, you'll have to go to Google's site to see whether any updates are available, rather than relying on a far more convenient automatic updater. But the trade-off is that you, rather than Google, get to choose what and what not to update.

Bugs & Fixes BY TED LANDAU



Extension Prevents Flash Video From Running

One of my guilty pleasures is the NBC series *Smash*, and I was glad to discover that NBC offers video clips showcasing the musical numbers from the series. But when I first tried to view a *Smash* clip, I got nowhere. The rotating circle signaling that a video was loading just kept rotating indefinitely.

First, I shifted from Safari to Firefox, and the videos played fine, suggesting that the problem was with my Safari installation, and not the NBC website. Returning to Safari, I checked to see what extensions I was running. Since the videos were Flash-based, I focused on ClickToFlash (macworld.com/7960).

The ClickToFlash extension prevents a webpage's Flash videos from loading automatically; instead, to get a video to run, you have to click it. I disabled the extension, and the Smash videos ran in Safari successfully.

In general, if you have a Safari-only symptom, go to *Safari → Preferences → Extensions* and turn the slider switch to Off. If the symptom vanishes, you'll now know the approximate source of the problem. Then turn *Extensions* back on and begin systematically disabling extensions one by one, until you locate the culprit.



Cookies Setting Blocks Webpage From Loading

When I attempted to load the Bill Pay page of my bank's website, I unexpectedly got a 404 error. The page did not load. Instead, a message appeared that apologized for the error and informed me that my Bill Pay page no longer existed.

The bank advised me to make sure that I wasn't blocking cookies. Though I hadn't made any recent changes to my cookies settings, I took the advice of my bank and checked things out.

First, as I had done with the Flash video problem, I shifted from Safari to Firefox. The page loaded without a hitch in the alternative browser.

Returning to Safari, I navigated to *Safari → Preferences → Privacy*. I confirmed that the 'Block cookies' option was set to 'From third parties and advertisers'. This was the same setting that had been in place for months, even when the page was loading correctly.

To test whether this worked, I changed the setting to *Never*. Surprise: The Bill Pay page now loaded in Safari. Even stranger, when I reverted to 'From third parties and advertisers', the page continued to load correctly—and has done so ever since. The cookies setting was the cause of the 404 error after all!

For whatever reason, Safari was behaving as if 'Block cookies' was set to Always, even though that wasn't the setting specified in Preferences.

Temporarily changing the setting apparently prompted the program to correct its own glitch. My advice here is to check Safari's cookies settings whenever a webpage unexpectedly refuses to load.

To test whether cookies are behind an error of this type, change the 'Block cookies' setting to *Never*—at least temporarily. If simply enabling cookies doesn't immediately resolve the issue, you may have to delete the cookies for the entire site.

To do this, click the *Details* button from the Privacy screen, search for the site's cookies item(s), and click *Remove* to delete them.



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DVD to iMovie to Facebook

Q: I want to take homemade video of my concert performance from a DVD, get it into iMovie, edit clips, and post the clips on Facebook. How do I do that?

Ivan A.

A: First, extract video from your DVD. I recommend using Handbrake (macworld.com/7959), a fine (and free) tool designed to extract and convert video from DVDs.

Download the app, and launch it. In the resulting navigation sheet, select the DVD, choose the *VIDEO_TS* folder, and click *Open*. Handbrake will scan the DVD for its main title. If there's just one title option, you're all set. If not, click the *Title* pop-up menu and choose the main title.

In the Presets pane, choose the *Apple TV 2* preset and click the *Start* button. By default, Handbrake will save the resulting H.264 movie to your Mac's desktop.

Now launch iMovie and create a new project (*File → New Project*). From the File menu, choose *Import → Movies*. If an HD Import Setting window appears, choose the option to import the *Full – Original Size* movie, and click *OK*. In the sheet that then appears, navigate to the movie you just ripped with Handbrake, and click *Import*. Eventually iMovie will import the

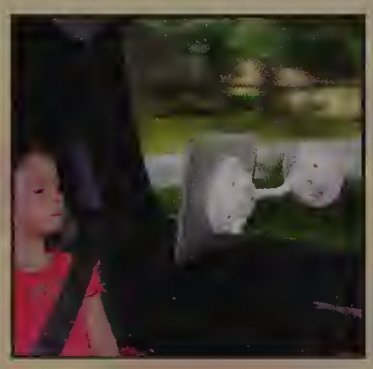
Mac 101

Try This On for Size

Q: I'd like the Size column to appear before Date Modified in all Finder windows displayed in List view. Years ago I could modify the com.apple.finder.plist file to do this, but that file has changed and is no longer an option. Is there a workaround?

Craig Moyer

A: In Mountain Lion, open a new Finder window with the root directory contents. Press ⌘-J to open the View window. In the Finder window, drag the *Size* column to the left so it's before Date Modified. In the View window, click *Use as Defaults* and close the View window. Most of the folders on your hard drive should display the Size column first, though the Downloads folder will maintain its original order. If you shift its Size column to the left, it should always open in that view. In earlier Mac OS versions, this technique doesn't work reliably. However, you can move columns manually in the windows that you routinely use, and they should stick.












AppleMount.com
NO brackets or clips.
Mounts in seconds & removes in one!
• Our tablet mount is built around the most technologically advanced vacuum mount on the planet. These mounts are surprisingly powerful and have a history of use in critical applications like holding dive tanks secure on boats, attaching bike racks to cars, and even assisting our military.
• Our heavy duty flex-arm allows you to bend and turn your tablet to get your screen into the perfect position.
• The vacuum mount has a built-in finger pump. Pump it until the orange band disappears, and if it loses any vacuum, the orange band will reappear to let you know that it's time to re-pump it.
Check out our new mini cups! Great for phones or small e-readers.
Let Your iPad Run Naked!
PATENT PENDING

clip—into either an existing event or a new event, if you've chosen that option.

Now that it's in iMovie, you can edit it to create clips. When you're satisfied with your work, choose *Share* ➝ *Facebook*, enter your Facebook login information, choose the export resolution for your clip, click *Next*, and upload your clip.



Viewing iCloud Documents The All My Files window allows you to see your iCloud documents.

When Documents in the Cloud Aren't

Q: I recently printed a Mail message as a PDF file with iCloud as the destination. I thought it would appear in Preview's iCloud file storage, but it isn't there. Nor is it in the Pages file storage area. Any idea where it is and how I can get to it?

Gordon Arbuthnot

A: Mail will allow you to save printed PDF files to iCloud, but you can't access them from within Mail because Mail doesn't have a documents window. Likewise, if you were to go to icloud.com and click *Mail*, you'd find that no storage location exists for anything created by Mail.

But you can gain access to your lost iCloud file in a couple of ways. The first is to open a Finder window and click *All My Files*. Under the PDF Documents heading, you'll see the PDF file you created within Mail (see "Viewing iCloud Documents").

Alternatively, while in the Finder, hold down the Option key, click the Go menu, and choose the now-visible *Library* command. Locate and open the *Mobile Documents* folder. Within it you'll find multiple folders. In your case you want the com.apple.mail folder. Inside it you'll find a Documents folder, and within that folder is your PDF file.





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*Current Mac OS X versions are unable to utilize more than 96GB RAM due to an operating system limitation. 128GB can be fully utilized by a 2009–2010 Mac Pro if running Bootcamp with 64-bit versions of Windows XP and later as well as with 64 bit versions of Linux.

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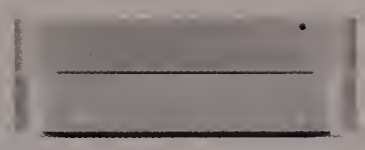


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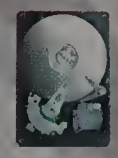
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Not My Type

As OS X (and its users) age, the interface is getting illegible.

As the years go by, and as my visual acuity decreases, I am becoming increasingly sensitive about the way letters appear on computer displays. Granted, today's displays are much better. They have nicer contrast and crisper fonts because of both higher pixel density and better antialiasing. My Apple Thunderbolt Display has a pixel density of 109 pixels per inch; my Retina MacBook Pro has 220 pixels per inch. This is a step up from the 72 pixels per inch that was long a standard for Mac displays.

But I'm on the other side of 50, and my eyes are not nearly as good as those of the youngsters who develop software. To them, 9-point monospace sans serif fonts might look fine. But to me, whether I'm reading or writing, I need something larger. That's why I've been disappointed with some of Apple's recent decisions about fonts.

The Fine Print

Let's start with the Reminders app in Mountain Lion. It offers just one size of type and one font; you'll find no preferences to choose something more readable.

Or look at Notes. You can choose from three default fonts, two of which (Noteworthy and Marker Felt) are really hard to read; while you can change the font or size for a note that you've created, you have no setting for changing the size of the default font. You can add more font options, but that requires editing a preferences file.

In Mail, you have a number of options to set the font and size of text in message lists and in messages themselves, but if you use the three-column view that Apple added to Mail in Lion, you cannot change the size or font that displays in the column showing the subject and senders of your messages.

And in Safari, you can't change the default font and size. The program's Advanced preferences let you choose a style sheet, but this is not something that most users will want to do. (While it's not extremely complicated, it does require creating a document with CSS settings.)

The font in the Reminders app is so small that I have to lean closer to my monitor to be able to read it easily. (I feel stuck with this app, though, because it syncs with Reminders on my iPhone; I haven't found another to-do app that does.) The new Calendar app has a font too tiny to be useful, but in that case I use BusyCal instead, which allows me to select any font and size that I want.

It's not just letters, either. In the Finder, you receive a limited choice in the size of icons. If you open System Preferences and click the *General* tab, you'll find the Sidebar Icon Size menu, which offers three options: Small, Medium and Large. It's not obvious, but this setting applies to the Finder, as well as to Mail, but not, for example, to iTunes. For iTunes, you need to go into that program's preferences, click the *General* icon, and then, in either the Source Text or List Text menu, choose *Small* or *Large*. The size of the icons is exacerbated by their limited color palette. Remember when there used to be colored icons in the Finder sidebar and in iTunes' source list? They're both monochromatic blurs now.



It Isn't Necessary

Obviously it doesn't have to be this way. For example, the Finder replacement Path Finder lets you choose any font size for both the Finder sidebar and for icon labels. Also, most text editors and word processors allow you to select the typeface and font size you prefer.

Yet this downsizing trend seems to be infecting third-party applications as well. Some minimalist text editors either impose their choice of font and size, or offer only a handful of options. Few iOS apps provide much in the way of font or size options, but that's not as bad, since you typically hold an iPhone or iPad closer to your eyes. (In any case, I need to wear reading glasses to do more than just the basics on my iPhone.)

On a larger display, however, where we do most of our work, providing more font and size options seems to me the simplest way to increase usability. Thanks to glasses, I can still see fairly well, but I wonder what all these changes are like for people with serious visual deficiencies. Yes, you can zoom your entire display when you need to look at something very closely. But there's no reason why we should have to do that, and no reason we shouldn't have more options when it comes to the way our applications display their text.

*Senior Contributor **Kirk McElhearn** writes about more than just Macs on his blog (mcelhearn.com). He is also the author of* Take Control of iTunes 10: The FAQ, *second edition (Take Control Books, 2012).*

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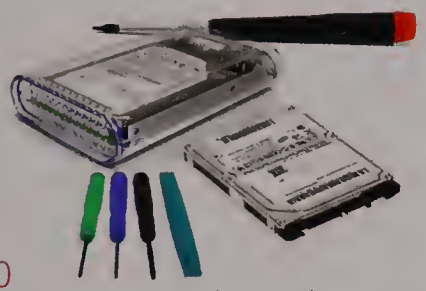
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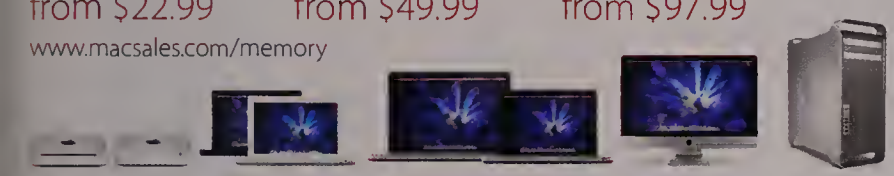


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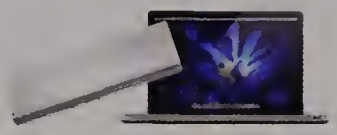
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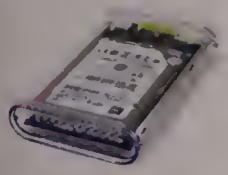
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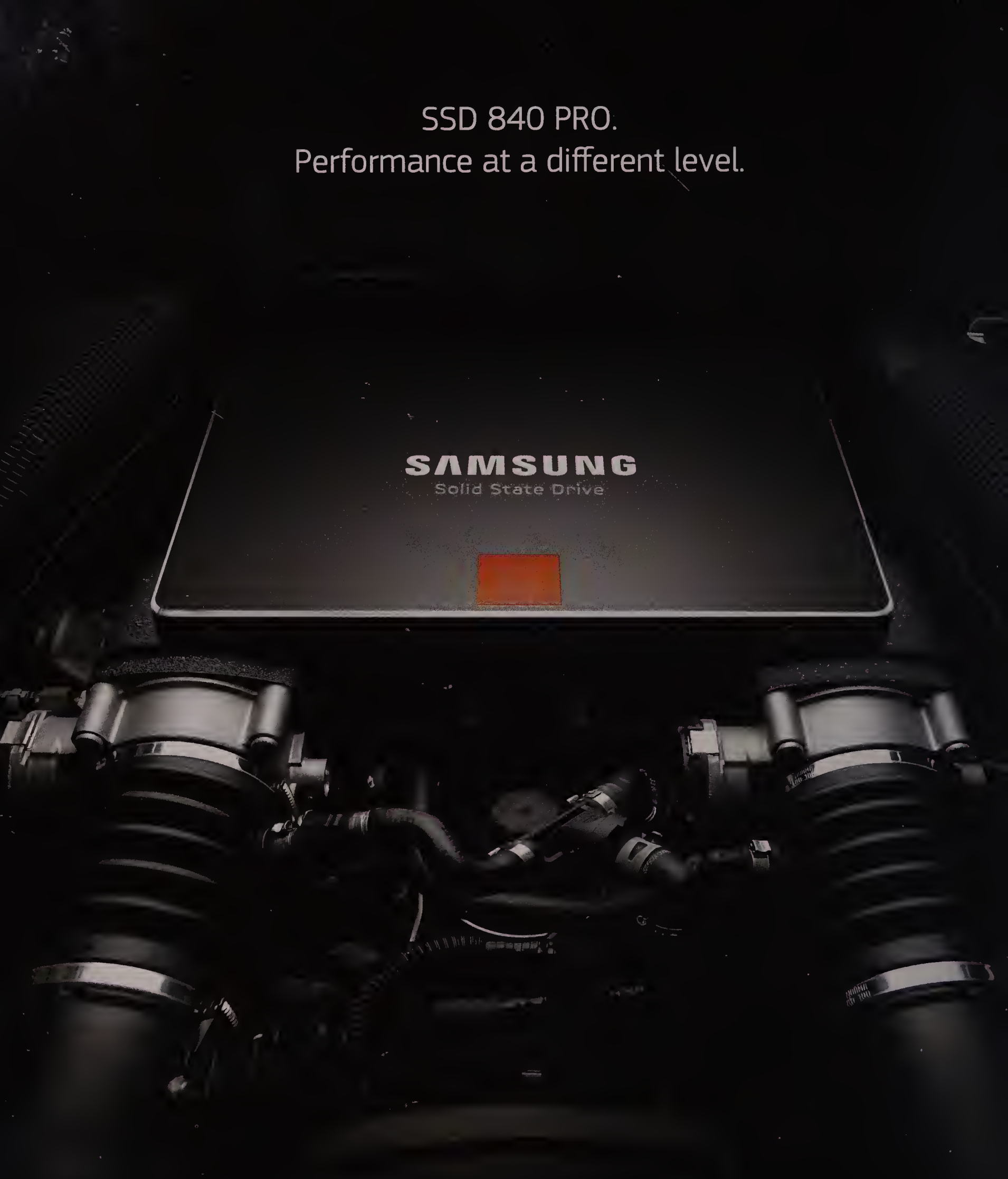
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